

Chaffey  College

# CATALOG

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*Providing quality education since 1883*

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# Chaffey College

1883 - 2016

*Providing quality education since 1883.*

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## FROM THE PRESIDENT

Welcome to Chaffey College! We are pleased that you have selected Chaffey College as your college. Our institution offers endless opportunities and programs, including over 100 degrees and certificates. We provide affordable, accessible educational programs and services to meet the needs of our community. Chaffey College has an over \$90 million annual impact on the economy in the Inland Empire. Many of our students, upon completing their college education, remain or return to the community and find employment, thereby stimulating the local economy.

Over the past 11 years, Chaffey College facilities have been transformed. The passage of Measure L provided \$230 million for new facilities and upgrades to enhance the learning environment for students. Furthermore, the Chaffey College faculty and staff take great pride in both their teaching and service. They are experts in their fields and are passionate about student success. So, whether you are a student at one of our campuses or enrolled in online classes, I encourage you to utilize both the teaching expertise of our faculty and the comprehensive services and support available to you to enhance your academic success.

Chaffey College is so committed to helping students succeed that the graduating classes from 2012 – 2015 have been the largest in Chaffey College history, and we are working hard to continue this success. If you are enrolling this academic year, we wish you congratulations on becoming one of the scholars who will benefit from the instruction and support that Chaffey College provides. A post-secondary education is the key to a better future.

Again, welcome to our new students and welcome back to those who are continuing their education. I look forward to seeing you around Chaffey College.

Henry D. Shannon, Ph.D.  
*Superintendent/President*

### Chaffey College

#### VISION

*Chaffey College:  
Improving lives through education.*

#### MISSION

*Chaffey College inspires hope and success by improving lives and our community in a dynamic, supportive, and engaging environment of educational excellence where our diverse students learn and benefit from foundation, career, and transfer programs.*

### Chaffey College Senior Management

**Sherrie Guerrero**

*Associate Superintendent,  
Instruction and Institutional Effectiveness*

**Lisa Bailey**

*Associate Superintendent,  
Business Services and Economic Development*

**Eric Bishop**

*Interim Vice President,  
Student Services*

**Melanie Siddiqi**

*Vice President,  
Administrative Affairs*



# CORE COMPETENCIES

## CHAFFEY COLLEGE STRIVES TO DEVELOP LIFELONG LEARNERS WHO EXHIBIT THE FOLLOWING:

### COMMUNICATION

Students will practice effective communication and comprehensions skills and strategies. Examples will include, but are not limited to the following:

- Comprehend, analyze, and respond appropriately to oral, written, and visual information.
- Effectively communicate/express both qualitative and quantitative information through oral, written, visual, and other appropriate modes of communication/expression.
- Ask questions and utilize appropriate resources to continually expand comprehension and oral, written, and visual communication skills.

### CRITICAL THINKING AND INFORMATION COMPETENCY

Students will demonstrate critical thinking skills in problem solving across the disciplines and in daily life. Examples will include, but are not limited to the following:

- Identify vital questions, problems, or issues and evaluate the plausibility of a solution. Compute and analyze multiple representations of quantitative information, including graphical, formulaic, numerical, verbal, and visual.
- Apply scientific processes to solve problems and measure and observe natural phenomena
- Select sources of information based on analysis and evaluation of accuracy, credibility, relevance, and reasonableness of information.
- Analyze and assess assumptions, biases, and multiple perspectives to develop a well-informed, valid argument.

### PERSONAL, ACADEMIC AND CAREER DEVELOPMENT

Students will assess their own knowledge, skills and abilities; set challenging and appropriate personal, educational, and career goals and persist in pursuing these goals; develop effective strategies for both individual and group work; and choose pathways that develop personal, academic, social, and financial responsibility. Examples will include, but are not limited to the following:

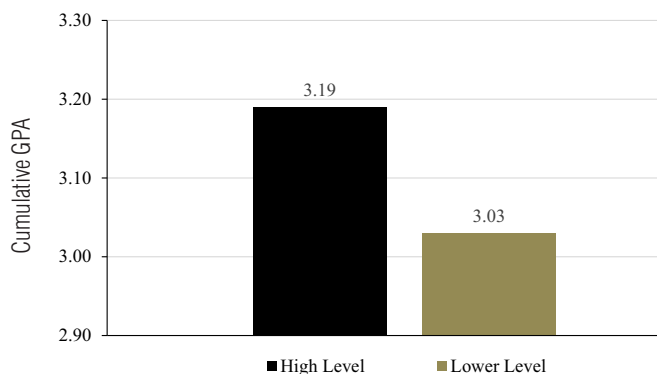
- Demonstrate professional and ethical responsibilities of the individual.
- Demonstrate the ability to use technology to assess, evaluate, and present information.
- Set short and long-term goals, seeking and utilizing various personal, academic, psychological, and social services in pursuit of these goals.
- Seek and utilize feedback to assess learning and progress toward goals.
- Demonstrate resilience by viewing challenges and obstacles as opportunities for growth.
- Demonstrate the ability to use technology to assess, evaluate, and present information.

### COMMUNITY/GLOBAL AWARENESS AND RESPONSIBILITY

Students will demonstrate knowledge of and strategies to consider significant social, cultural, environmental and aesthetic perspectives. Examples will include, but are not limited to, the following:

- Identify and apply the social and ethical responsibilities of the individual in society.
- Demonstrate social and ethical responsibility within a community.
- Demonstrate commitment to active citizenship by recognizing and evaluating important social, ecological, economical, and political issues.
- Demonstrate an understanding and appreciation for individual, social, and cultural diversity.

### CORE COMPETENCY ASSESSMENT



Here is an example of some of the core competency assessment the college gathered from last year's graduates. This competency focuses on the valuation of others' rights and feeling informed about cultural diversity. In a recent study, the college's researchers found that graduating students possessing a high level of global awareness also earned a significantly higher cumulative GPA than did students possessing a lower level of global awareness. Students at Chaffey College are given a core competency assessment at three different points: during initial assessment, at 30 units, and at degree/certificate completion. Those results are used to assist the college in determining the degree to which students have achieved mastery of the core competencies listed on this page.



# SCHOOLS AND SERVICES OF THE COLLEGE

## OFFICE OF INSTRUCTION AND INSTITUTIONAL EFFECTIVENESS

**Sherrie Guerrero,**  
*Associate Superintendent*

## KINESIOLOGY, NUTRITION, AND ATHLETICS

**Cory Schwartz,** *Dean*

Nutrition and Food  
Kinesiology: Activity, Lecture, and Team

## SCHOOL OF BUSINESS AND APPLIED TECHNOLOGY

**Joy Haerens,** *Dean*

Accounting and Financial Services  
Automotive Technology  
Aviation Maintenance Technology  
Business  
Business Management  
Business Marketing  
Business: Paralegal Studies  
Business and Office Technologies  
Career Transitions (formerly Tech Prep)  
CISCO  
Computer Information Systems and Sub-Disciplines  
Computer Science  
Emergency Medical Technician  
Fire Technology  
Industrial Electrical Technology  
Real Estate

## SCHOOL OF HEALTH SCIENCES

**Anthony DiSalvo,** *Interim Dean*

Dental Assisting  
Gerontology  
Nursing Assistant and Home Health Aide  
Nursing: Acute Care Technician  
Nursing: Associate Degree Nursing (ADN)  
Nursing: Vocational Nursing (VN)  
Pharmacy Technician  
Radiologic Technology

## SCHOOL OF INSTRUCTIONAL SUPPORT AND LIBRARY SERVICES

**Laura Hope,** *Dean*

Chaffey College Program at the California Institution for Women at Chino  
Curriculum  
Distance Education  
Enrollment and Success Management  
Library/Cybrary  
Professional Development  
Student Success Initiative  
Student Learning Outcomes  
Success Centers  
– Faculty Success Center  
– Language Success Center  
– Math Success Center  
– Multidisciplinary Success Center  
Multidisciplinary Success Centers  
(Rancho, Chino and Fontana)  
Summer School  
Supplemental Instruction  
Title IV Grant

## SCHOOL OF LANGUAGE ARTS

**Anthony DiSalvo,** *Dean*

American Sign Language  
Arabic  
Chinese  
Communication Studies  
English  
English-as-a-Second Language  
French  
Journalism (Student Newspaper & Chaffey Review)  
Spanish  
Study Abroad

## SCHOOL OF MATHEMATICS AND SCIENCE

**Ted Younglove,** *Dean*

Astronomy  
Biology  
Chemistry  
Drafting  
Earth Science  
Engineering  
Engineering Technology  
Geography  
Geology  
Mathematics  
Physical Science  
Physics  
Statistics

## SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

**Cory Schwartz,** *Dean*

Administration of Justice  
Anthropology  
Child Development and Education  
Child Development Center  
Correctional Science  
Economics  
Education  
History  
Homeland National Security  
Honors Program  
Humanities  
Philosophy  
Political Science  
Psychology  
Social Science  
Sociology

## SCHOOL OF VISUAL AND PERFORMING ARTS

**Jason Chevalier,** *Dean*

Art and Art History  
Broadcasting  
Cinema  
Dance  
Music  
Photography  
Theatre Arts  
Wignall Museum of Contemporary Art

## STUDENT DISCIPLINE AND ENROLLMENT MANAGEMENT

**Len Crow,** *Dean*

College Catalog  
Coordinated Scheduling  
Schedule of Classes

## OFFICE OF STUDENT SERVICES

**Eric Bishop,** *Interim Vice President*

Admissions and Records  
Cashier's Office  
Financial Aid  
International Students  
Student Health Services  
Transfer Center  
Veterans Services

## ATHLETICS

**Cory Schwartz,** *Dean*

## COUNSELING AND MATRICULATION

**Amy Nevarez,** *Dean*

ADA Facilities  
AMAN/AWOMAN  
Articulation  
Assessment  
Career Center  
Cooperative Education  
Counseling  
Disability Programs and Services  
Diversified Industries  
Early Assessment Program  
EOPS/CARE  
Foster Youth  
GPS Center  
Guidance  
High School Partnerships  
Learning and Educational Development (LED)  
Learning Development Center (LDC)  
Opening Doors to Excellence  
Puente Project  
Senior Early Assessment  
Student Success and Support Programs  
Test Proctoring Center  
Welcome Center

## STUDENT ACTIVITIES

**Vacant,** *Director*

## STUDENT DISCIPLINE AND ENROLLMENT MANAGEMENT

**Len Crow,** *Dean*

Student Discipline

## CHINO CAMPUS

**Teresa Hull,** *Dean*

Fashion Design & Merchandising  
Hospitality Management  
Interior Design

## FONTANA CAMPUS

**Teresa Hull,** *Interim Dean*

# GENERAL INFORMATION

## THE DISTRICT

The college district serves the population of the inland empire of western San Bernardino County, where the communities of Chino, Chino Hills, Fontana, Guasti, Montclair, Mt. Baldy, Ontario, Rancho Cucamonga (Alta Loma, Cucamonga, and Etiwanda), and Upland are located. Four districts serving high school students are contained within these communities. They are the Chaffey Joint Union High School District, the Chino Valley Unified School District, the Fontana Unified School District, and the Upland Unified School District.

## THE COLLEGE

### ACCREDITATION

Chaffey College is a two-year public community college and is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges (10 Commercial Blvd., Suite 204, Novato, CA 94949, (415) 506-0234), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. Chaffey College was last fully accredited by the ACCJC in March 2010. The college is scheduled for its next comprehensive evaluation in Spring 2016. Chaffey is a member of the American Association of Community Colleges, the Community College League of California, Service Members Opportunity Colleges (SOC), the Consortium of Southern California Colleges and Universities, and is approved by the Office of Private Post-Secondary Education for Veterans Benefits.

### INSTITUTIONALLY-SET STANDARDS

To address Accrediting Commission for Community and Junior Colleges (ACCJC) Accreditation Standards, Chaffey College has developed an inclusive shared governance process to review and set institutional standards. Chaffey's College Planning Council (CPC) includes representation from committees that are most closely connected to the District's planning process (e.g., Program and Services Review, Outcomes and Assessment, and Curriculum Committees), as well as the District's executive team, instructional and student services deans, Associated Students of Chaffey College (ASCC), and the executive boards of both the Faculty and Classified Senates.

One of the main responsibilities of CPC is to evaluate institutional effectiveness, specifically the development and ongoing assessment of institutionally set standards. Starting with ACCJC and California Community College Institutional Effectiveness Partnership Initiative (IEPI) identified metrics, CPC engages in an annual review of externally mandated and internally valued performance outcome measures, establishing short-term (annual) and long-term (3 to 5 year) goals. The development of institutionally set standards occurs through a rigorous review of evidence that includes but is not limited to: an examination of empirical data; review of 3-5 year trends; identification of internal and external factors that directly or indirectly impact performance outcomes; and inclusion of feedback and professional judgment from content experts. Institutional standards are set, assessed, and modified as needed on an annual basis. Performance outcomes on institutionally set standards are disseminated annually to the Chaffey College Governing Board, District decision-making groups and constituencies, and are made available to the public.

### HISTORY

Chaffey College represents the vision of George and William Chaffey, who founded the City of Ontario in the last quarter of the nineteenth century. Recognizing the need for an institution of higher learning, the Chaffey brothers donated land and established an endowment for a private college known as the Chaffey College of Agriculture. On March 17, 1883, the cornerstone of the college was laid at Fourth Street and Euclid Avenue in Ontario. Due to meager financial resources, the college became an extension of the University of Southern California and then closed for a brief period in the early 1900's. In 1906 the Chaffey endowment was legally separated from the University of Southern California and the reorganized Chaffey Union High School District became the beneficiary of the College Trust.

In 1916 the Chaffey Junior College of Agriculture was added as a postgraduate department to the high school. A separate junior college district was created in 1922 and in 1957 bonds were approved in support of a complete separation of the high school and college facilities. Property was acquired in Alta Loma and a long-anticipated new college opened its doors in the spring of 1960. Passage of Measure L (\$230 million) in 2002 is enabling the college to construct and renovate a number of buildings on the Rancho Cucamonga, Chino, and Fontana Campuses.

## STUDENT EQUITY

The District, and each individual who represents the District, commit to actively pursuing equity for Chaffey College students without regard to national origin, religion, age, sex (gender), race, color, medical condition, ancestry, sexual orientation, marital status, physical or mental disability, or because he or she is perceived to have one of the foregoing characteristics through the implementation of the goals and objectives of the Student Equity Plan. Being sensitive to the personal, professional, and aesthetic needs of its diverse populations and cultures, the college will incorporate into its educational process the richness of world cultures, languages, ethnicities, and artistic pluralism that is strongly represented within our community.

We commit to respecting, celebrating, and integrating student's diverse cultures into all phases of campus life. We will provide leadership in creating a climate to ensure that all students, faculty, staff, and administrators share in the implementation of Chaffey College's equity goals.

## ADMINISTRATION AND GOVERNING BOARD

The superintendent/president is the chief administrative officer and is assisted by associate superintendents, vice presidents, deans, directors, and members of the faculty in bringing educational excellence to the community. The Governing Board has five members elected by district voters, and a student member elected by the student body.

## SCHOOLS AND SERVICES

The college has six schools which provide an extensive range of the highest quality transfer and occupational courses: Business and Applied Technology; Health Sciences, Language Arts; Mathematics and Science; Social and Behavioral Sciences; and Visual and Performing Arts. Student Services provides additional instruction in physical education, athletics, cooperative education, disability programs, and guidance. The college also provides many excellent student support services including student success centers, transfer counseling, career planning assistance, job placement, financial aid, health care, child care, and help with public transportation.



## CURRICULUM

The College offers lower division courses for students who plan to transfer to a four-year college or university, occupational courses for students who wish to acquire or improve employment skills, and general education courses to provide all students with an awareness of the cultural diversity of our nation and the world.

Transfer programs are designed to meet the lower division requirements of four-year colleges and universities and to develop the skills essential to success in upper division courses. General education courses are articulated with comparable university courses to assist students in meeting transfer requirements. These courses introduce students to a variety of academic disciplines and acquaint them with the assumptions and theoretical bases fundamental to each discipline.

Occupational programs are continually updated to reflect current industry requirements. Interaction with community leaders, advisory committees, and with business, industry and public service organizations ensures that students are kept apprised of developments in employment trends.

Finally, noncredit courses are provided for students wishing to learn English as a Second Language or to improve basic academic skills in math and English. Tutoring is provided primarily through the five college Success Centers which also serve as the college's primary resource for supplemental learning and assistance.

## DEGREES

Students who successfully complete the requirements for graduation are awarded Associate in Arts and Associate in Science degrees. Students who complete the requirements of selected programs receive Certificates of Achievement.

## COLLEGE YEAR

Chaffey College is organized on the semester system. The academic year includes two 17 1/2-week semesters, Fall and Spring, which run from August through May, plus a summer session. Courses offered in the various terms are similar in scope and maintain equivalent standards. The academic calendar for the 2015-2016 college year appears in the back of this catalog.

In addition to the regularly scheduled 17 1/2-week classes, intensive short-term classes are offered. Some open-entry, open-exit classes allow for flexible scheduling, as do the growing number of online sections.

Day and evening classes are available for full-time and part-time students. Daytime classes are scheduled from 6:30 a.m. to 4:30 p.m. Monday through Friday. Evening classes usually begin at 5:30 p.m. Monday through Friday. Field trips are scheduled outside the normal class meeting time and may include weekends.

## FACULTY

Student success is the focus of faculty at Chaffey College. The faculty comprises dynamic and committed professionals who have completed the rigorous requirements mandated by the State of California. All faculty must demonstrate subject matter competency, the ability to teach that subject matter, and a commitment to remain current in their discipline. The college recruits faculty who are sensitive to and prepared to work with a diverse student population.

Chaffey faculty reflect the diversity of the student population, representing a wide variety of ethnicities, cultures, and belief systems. They include scientists, writers, technical experts, vocational specialists, and scholars. Faculty are deeply committed to teaching excellence in both the vocational and academic programs. They use their expertise in business, social science, natural science, the humanities, and the arts to prepare students for vocations, university transfer, or associates' degrees.

## FACILITIES

Chaffey College rests at the base of the San Gabriel Mountains rambling over 200 acres of man-made and natural vegetation. It is a college that provides excellent post secondary educational opportunities to a service area in excess of 798,355 residents.

An array of facilities support the academic mission of the college including science, engineering, modern language, and reading laboratories that meet the standards of occupational education. The Wignall Museum of Contemporary Art and the Chaffey College Theatre offer opportunities for both fine and performing arts. The museum and theatre are unique resources for both the college and the community. The college also has facilities for broadcasting, drafting, photography, and graphic arts as well as a gymnasium, swimming pool, fields for competitive and recreational sports, a student center

and lounge, cafeteria, bookstore, a network of student success centers, an online assessment center, and a Child Development Center where children of student-parents receive care. The college is also well served by a library/learning resources center.

Other facilities include off-campus centers that support the academic and services functions of the college. One such facility is the Learning Development Center, which provides vocational training and support programs and services for students with physical, developmental, or learning disabilities.

The District offers a strong program of community-based education that is delivered primarily through the Chaffey College Campuses in Chino and Fontana. Using the Chino and Fontana Campuses as a community base, students have access to a myriad of classes that are an extension of the college.

Passage of Measure L (\$230 million) in 2002 has enabled the college to construct or renovate a number of buildings on the Rancho Cucamonga, Chino, and Fontana Campuses. Completed projects on the Rancho Cucamonga Campus include the Marie Kane Center for Student Services/Administration, the Don Berz Excellence Building, the Michael Alexander Campus Center, the Science Complex, the Central Plant, the Physical/Life/Health Science renovation, the Math Success Center renovation, the Center for the Arts, the Sports Center, and the gym renovation project. On the Fontana Campus, the Fontana Academic Building opened for the Fall 2011 semester. This building houses classrooms, laboratories, a library and bookstore and a dance studio. The Chino Campus Main Instructional Building opened for the Spring 2008 semester, and the Health Science and Community Center buildings opened in Spring 2009. The Chino Community Center houses the Hotel and Food Services Management program, Interior Design, and Fashion Design and Merchandising programs. Chino is also the home of the Robert Pile Information Technology Center which houses the Computer Information Systems and Industrial Electrical Technology programs.

There are also a number of landscaping projects that have been completed and several currently in progress to beautify all of the campuses. We are especially pleased with the completion of the Agricultural Demonstration Garden which consists of a two acre vineyard and one acre citrus grove located at the southeast corner of Haven and Wilson Avenue. Other projects include the expansion and renovation of our parking lots.



### CHAFFEY COLLEGE CHINO CAMPUS

#### College Park

5897 College Park Avenue, Chino

The Chaffey College Chino Campus includes five buildings: three of which are at the College Park location and two buildings are at the downtown Chino location. The campus provides a full array of student services including admissions, assessment testing, cashiering, financial aid, academic counseling, limited transfer services, student health services, and a full service bookstore. Students also have access to a multidisciplinary success center to assist them in a variety of subjects. Students are offered instruction in a multitude of general education and occupational courses. Students can complete the following courses uniquely at the Chino Campus: Vocational Nursing, Industrial Electrical Technology, CISCO, Hospitality Management, Fashion Design/Fashion Merchandising and Interior Design. For additional information, call (909) 652-8000.



### CHINO EDUCATIONAL CENTER

13106 Central Avenue, Chino

The Chino Educational Center opened its doors in spring 2000 to better serve the residents of the southwestern portion of the district. Currently, the Center hosts members of the Chaffey College Economic Development Department who provide a myriad of services to local businesses and industries to enhance performance in the workplace. Such services include needs assessment, performance consultation, business solutions, and development of customized training to address identified needs. The Center also hosts the Centers of Excellence which support the community colleges by providing customized data on high growth, emerging, and economically-critical industries and occupations and their related workforce needs as well

as individuals who specialize in meeting educational and workforce needs and aligning resources in specific industry sectors as part of the California Community Colleges Chancellor's Office Doing What Matters for Jobs and the Economy framework.



### ROBERT PILE INFORMATION TECHNOLOGY CENTER

13170 Seventh Street, Chino

The Robert Pile Information Technology Center was developed in partnership with the City of Chino Redevelopment Agency and industry partners Verizon, Enterasys, Cisco, and Gateway to provide Southern California the state-of-the-art training and education vital for its economic growth. The center is designed to meet the needs of the information technology industry by providing a well-trained and educated workforce. Classes offered include Cisco academies (CCNA, CCNP) and industrial electrical technology. The center also offers entry-level training for various industries as defined by current labor market trends as well as Community Education, fee-based classes designed to meet the professional needs and interests of community residents. For additional information call (909) 652-8000.



### CHAFFEY COLLEGE FONTANA CAMPUS

16855 Merrill Avenue, Fontana

The Chaffey College Fontana Campus is located in central Fontana and provides access to higher education for residents in the eastern portion of the college district. The campus includes three buildings and offers instruction in a multitude of general education and a limited number of vocational courses. The Ralph M. Lewis Center has classrooms and provides access to admissions, cashiering, and financial aid. Students can also receive academic counseling and limited transfer services at the Fontana Lewis Center. The Fontana Academic Center, which

opened in Fall 2011 has classrooms, science labs, a library resource center, a student lounge and a full service bookstore. This Center also provides CalWORKS, DPS, and EOPS Counseling. The Fontana Center building also has classrooms as well as the multidisciplinary success center where students can receive tutoring and instructional assistance. This facility also offers Guiding Panthers to Success (GPS), Assessment Testing and Orientation. For additional information, please call (909) 652-7400.

## THE CHAFFEY COLLEGE FOUNDATION

The Chaffey Foundation, a non-profit [501(c)(3)] independent corporation, was organized and established in 1987 by friends and alumni to support the activities and programs of the College. It has become one of the most successful community college foundations in Southern California. The mission of the Chaffey College Foundation is that no individual be denied an education at Chaffey College due to a lack of financial resources. The Foundation coordinates various fundraising activities and receives all donations made to the College and the Foundation. Donations allow the Foundation to award scholarships and continue to fund dreams – one student at a time. Foundation leaders are also instrumental in forging partnerships between the college and the communities it serves. The Foundation has encouraged college and community participation in a variety of intellectual, cultural, recreational, and social activities. Anyone interested in learning how to support the Foundation's mission and Chaffey College's students, or any students interested in scholarship opportunities, please call (909) 652-6545.

## THE CHAFFEY COLLEGE ALUMNI ASSOCIATION

Chaffey College alumni and former students continue to play a vital role in the campus community. The Chaffey College Alumni Association exists to showcase the successes of alumni and to celebrate Chaffey's rich history, traditions, and accomplishments in order to ensure Chaffey's reputation continues to grow. The Association promotes the interests and goals of alumni and former students and offers opportunities for meaningful involvement with the college through Association membership, regular communication, and special events. Alumni and former students are encouraged to get involved with the Alumni Association and show their Panther Pride; please contact the Alumni Office at (909) 652-6541 or via email at [alumni@chaffey.edu](mailto:alumni@chaffey.edu).

# MATRICULATION PROCESS

## ADMISSION TO THE COLLEGE

All high school graduates, anyone who has a Certificate of Proficiency or a G.E.D., and anyone 18 years of age or older who can benefit from a course of study are eligible for admission.

High school students and residents of other states and foreign countries may apply under special regulations. See sections on High School Concurrent Enrollment or International Students for more information.

### APPLICATION

Applications may be submitted online by visiting Chaffey's website at [www.chaffey.edu](http://www.chaffey.edu) and clicking on the Application link. Additional application guidelines apply for international students. For more information on the application process for international students please visit: <http://www.chaffey.edu/international/requirements.shtml>

### WHO MUST APPLY

Applicants who will attend Chaffey College for the first time (new students) or former students who have not attended for one or more terms (returning students) must complete an application for admission. Graduating high school seniors who have been enrolled through the High School Partnership Program must submit a new application upon graduation from high school.

### Residency Requirements

As a California Community College, Chaffey College is bound by certain legal requirements related to residency. New and returning students to Chaffey College are classified for the purpose of determining California resident or non-resident status. The classifications are as follows:

#### California Resident

Regulations state that in order to be considered a California resident for tuition purposes, students must have legal residence in the state for a period of one year immediately preceding the day before the start of the term the applicant expects to attend (Residence Determination Date) [EC 68017]. Students may be required to present evidence of physical presence in California for at least one year and proof of intent to make California their permanent home. Persons over 18 years of age who have legal residence in California for a period of one year immediately prior to the Residence Determination Date may attend as residents.

#### Non-Resident

A non-resident is a student who has not established residence in the state for one year as of the residence determination date (the day before the first day of instruction). Students who provide information on the admission application that is inconsistent with California residency requirements indicated above must complete a Residency Questionnaire. Once the questionnaire has been reviewed, additional documentation may be required in order to make a final determination.

#### Reclassification

Students who have previously attended Chaffey College as a non-resident and wish to change their status must complete the Residency Questionnaire. Additional documentation will be required to prove physical presence and intent as indicated above, plus documentation to prove financial independence.

#### **Official college transcripts from schools previously attended must be submitted for:**

1. Students who plan to graduate or complete a certificate at Chaffey College, and/or transfer to a four-year college
2. Veterans receiving educational benefits
3. Students who plan to apply for the registered nursing and vocational nursing programs
4. Students needing to show completion of course prerequisites
5. Students who have earned an associates degree or higher for exemption from assessment, orientation, and counseling

#### **Official high school transcripts must be submitted for:**

1. Students who plan to apply for the registered nursing, and vocational nursing programs (GED or high school proficiency scores may be submitted in lieu of transcripts)
2. All high school students

#### **Release of Transcripts to Other Institutions:**

Chaffey College is not permitted to make copies of or release transcripts from high schools or other colleges.

### MYCHAFFEY WEB PORTAL

The MyChaffey web portal is a one-stop-shop that provides students with a single point of entry for accessing important resources and information. From within the portal, students have easy access to MyChaffeyVIEW, Moodle, Library services, college announcements and messages, the college events calendar, as well

as Chaffey and local news. For more information and login instructions, click on the First Time Users link located on the MyChaffey portal main page at <https://my.chaffey.edu>.

### CHAFFEY STUDENT EMAIL

All Chaffey students will be provided with a student email account upon initial registration. All communication to students from Chaffey College, including wait list notifications, will now be directed to their new panther.chaffey.edu email account. Student email should be checked often; deadlines will not be extended due to failure to read email.

### ORIENTATION, ASSESSMENT, COUNSELING

All new and returning students are required to participate in orientation, assessment, and complete education plan in order to receive a preferred registration date. These services include, writing, and mathematics testing, and a presentation on college programs and services. With the assistance of a counselor, students develop an educational plan that includes required classes to achieve their educational and career goals. Students may be exempt from portions of these services or may choose not to participate. Contact the Counseling Department or visit our website at [www.chaffey.edu/counseling](http://www.chaffey.edu/counseling) for appointments and details.

### EARLY ASSESSMENT PROGRAM

The California State University, in collaboration with the California Department of Education and California Board of Education, implemented the Early Assessment Program (EAP) in 2004 to assist college-bound high school students in determining their readiness for college-level English and math courses. As a sign of college readiness, the EAP provides high school students with an opportunity to make the most effective use of their senior year to prepare for college if their test results indicate they are not ready for college-level courses. As an incentive to students to take the EAP test and to do their best, students who demonstrate college readiness on the EAP are exempt from taking the college's assessment and proper placement into college-level English and math courses will be assigned. For more information regarding EAP, please contact the Counseling Department at (909) 652-6200.

### SENIOR EARLY ASSESSMENT

The Chaffey College Senior Early Assessment (SEA) Program provides a seamless service delivery to Chaffey College District high school students in the spring semester of their senior year. High school seniors participate in Chaffey



College orientation and assessment and meet with a Chaffey College counselor to plan first semester courses. Participating high school seniors are also informed about Chaffey College programs and services, including Admissions & Records, Financial Aid, Counseling, and Extended Opportunities Programs and Services (EOPS). Students who complete the entire SEA sequence (orientation, assessment, and counseling) are eligible for early registration.

### PHOTO I.D. CARD

Chaffey College Photo ID cards are required for use of labs, library, and other services. Students are encouraged to secure their Photo ID card prior to the beginning of the term and must show proof of current enrollment and payment of fees to receive a Photo ID card. Photos must be an unobstructed, front view of the full face that is a representation of the true appearance of the card holder. No facial or hand gestures or foreign objects are to be included in the photo. Hats, sunglasses, and any other clothing that might obstruct the view of the face may not be worn. All headware must be removed, unless worn for valid religious, cultural or medical reasons. No picture retakes are allowed unless the picture is unusable due to closed eyes or other unforeseen problems. Please contact the Admissions & Records Office for further information.

### SCHEDULE OF CLASSES

The schedules of classes are available on the Chaffey College website at [www.chaffey.edu](http://www.chaffey.edu) prior to the registration period. Class offerings are organized by campus and/or by instructional type. The schedules contains detailed instructions concerning enrollment, registration, fees, and related deadlines, along with helpful information about programs and services of the college.

## REGISTRATION

The Student Success Act of 2012 (SB 1456), put into place new state regulatory changes that affect all California Community College students. Chaffey College has implemented the following changes regarding student registration:

**Unit Capacity** – Any Chaffey College student who exceeds 100 units (excluding 500 level courses) will lose registration priority status.

**Enrollment** - All Chaffey College students must complete the following to retain registration priority;

- Orientation – completed the college orientation
- The Chaffey College Assessment process – includes taking the following placement tests:

- o Math, English, and reading
- o or ESL
- Education Plan – approved by a counselor
- Maintain Good Academic Standing (cumulative GPA 2.0 or better)
  - o Financial Aid Students – Effective Fall 2015 Students' Board of Governor's fee waiver eligibility will be impacted if you do not meet academic and progress standards for two consecutive terms.

### Registration Date Assignment

Registration priority is assigned in the following order (Title 5, Section 58108):

1. Students who have completed orientation, assessment, and an education plan, and are enrolled in and receiving services from an eligible priority group as defined by Education Code 66025 and Title 5 58108.
2. Continuing, returning, and new students who have completed orientation, assessment and an education plan; continuing students must also be in good standing.
3. Student who have completed more than 100 units.
4. Students who have not completed orientation, assessment, OR an education plan, and/or are not in good academic standing.

For more information regarding the California Community College regulations for student success visit the California Community College Chancellor's website.

[www.californiacommunitycolleges.cccco.edu](http://www.californiacommunitycolleges.cccco.edu) or the Chaffey College website

[www.chaffey.edu/student-success](http://www.chaffey.edu/student-success).

An informational video is also available at <http://www.youtube.com/watch?v=vjuxhzeG8VQ>

Registration dates will be available on MyChaffeyVIEW approximately two weeks prior to the start of the registration period. Students may register online on or after their assigned registration date. Students who do not have access to a personal computer may use the student computers in the Admissions and Records Office on any campus. High school students participating in the High School Partnership Program and students with petitions are required to register in person.

### ALTERNATE CHOICE OF CLASSES

It is recommended that students prepare an alternate list of classes to fit their schedule in the event their first choice of classes is not available. Classes are filled on a first-come basis. A list of open classes is available throughout the registration period. The open class list is available on Chaffey's website at [www.chaffey.edu](http://www.chaffey.edu).

### CLOSED CLASSES AND WAIT LISTS

Wait lists open as soon as a class becomes full. When a seat becomes available, notification of permission to register will be sent to the student's Chaffey email account, based on wait list ranking. Students are allowed three days to complete registration. Failure to enroll before the deadline provided in the email will result in removal from the waitlist. Wait lists are limited to 20 students. A student must attend the first class meeting to be considered for admission to a closed class.

The deadline to add classes from the wait list cannot be extended. Wait list status can be monitored through the 'Manage My Waitlist' link in the MyChaffey portal by selecting MyChaffeyVIEW from the launch pad.

### UNITS

Students may register for a maximum of 18 units during fall/spring terms and 7 units during summer term using online registration. Any units exceeding the maximum must be approved by a Counselor and added in person in the Admissions and Records Office.

### LATE REGISTRATION

Add Codes are required to register for any open or closed class beginning the first day of instruction for each semester or summer term. The following students must register in person in the Admissions and Records Office:

- High School students
- Students with special petitions or co-requisite waivers
- Students with financial or other restrictions
- Student who are auditing

The late registration period is published in the schedule of classes. Classes can no longer be added after the late registration deadline has passed. Open entry/open exit classes may be added up to the 14th week of the fall/spring term.

### MULTIPLE ENROLLMENT

Students may not enroll in more than one section of any course that is not repeatable in the same term. Students will not be permitted to register for classes that are scheduled to meet at the same time or at overlapping times; however students may wait list for a class that overlaps another.

### ATTENDANCE AT THE FIRST CLASS MEETING

Students who do not attend the first meeting of each class in which they are registered may be dropped from the class. However, it is each student's responsibility to officially drop any class they do not attend or stop attending. This includes all instructional formats, including online and hybrid classes.

## LIMITATIONS ON ENROLLMENT

Chaffey College offers some courses which place limitations on enrollment. These limitations may include successful completion of courses, preparation scores for math and English, performance criteria or health and safety conditions. Students who do not meet the conditions imposed by these limitations may be unable to register for or may be dropped from class.

### PRECOLLEGIATE BASIC SKILLS LIMITATIONS

Chaffey College limits the number of units students can earn for precollegiate basic skills courses to 30 semester units. Precollegiate/basic skills courses are defined as those two or more levels below college level English and one or more levels below elementary algebra. English as a Second Language and students with disabilities are exempted from this limitation. The college may approve a waiver of the limitation on foundational course work with respect to any student who shows significant, measurable progress toward the development of skills appropriate to his or her enrollment in college-level courses. Waivers are only given for specified periods of time and for specified numbers of units. Contact the Mathematics, English, English as a Second Language, or Reading Departments or the Disability Programs and Services Office for more information.

### PREREQUISITE/COREQUISITE COURSES AND ENFORCEMENT

When a course has a prerequisite, it means that a student must possess a certain body of knowledge to be successful in the course. The preexisting knowledge may be a skill, an ability, a placement preparation score, or successful completion of a course. Completion of a prerequisite course requires a grade of C or better or a grade of CR (credit) or P (pass). A grade of C- is not acceptable for completion of a prerequisite/corequisite course.

When a course has a corequisite, it means that a student is required to take a course at the same time as another course. Knowing the information presented in the corequisite is considered necessary for a student to be successful in the course.

The college's registration process allows for prerequisite checking by computer. Students attempting to enroll in the computer-checked courses will be blocked from registration if they do not meet the specified prerequisites. Students are responsible for meeting prerequisites as stated in the class schedule and college catalog. See a counselor for assistance in determining eligibility for a specific class.

Assessment results from other colleges may not be used to meet prerequisites, so new students must arrange to take Chaffey's assessment testing prior to registration. Students who have completed prerequisite courses at another college or in high school must have an official transcript on file in the Admissions and Records Office, and complete a Prerequisite Validation Form (available in the Counseling Department and on the Chaffey College website) prior to registration. The validation forms are also accepted at the Chino and Fontana campuses, but are faxed or mailed to the Rancho campus to be processed. Some requests may require up to 7 business days to process but are usually processed within 48 hours. Students should receive notification of the decision by email or mail within a week of processing. If approved, the student will be allowed to register during their registration period.

Students who are enrolled in the prerequisite course at Chaffey at the time of their registration will be permitted to enroll in the subsequent course. Students who do not pass the prerequisite course will be dropped by the Admissions and Records Office prior to the start of classes.

Any student planning to clear a math prerequisite for a math course by using their high school transcript must complete a Prerequisite/Corequisite Challenge form. See the section on Prerequisite/Corequisite Challenge for more information.

### Prerequisite/Corequisite Challenge:

Prerequisites for courses will be enforced according to college policy. Students have the right to challenge prerequisites on the following grounds:

1. A prerequisite for a course necessary for graduation, transfer, or a certificate is not offered and the unavailability of that prerequisite poses a hardship.
2. The prerequisite has not been validated.
3. The student has the knowledge or ability to succeed in the course despite not meeting the prerequisite.
4. The department coordinator will approve or deny the challenge within five (5) business days.

The student must provide appropriate documentation when filing a challenge. Documentation may include, but is not limited to, official high school or college transcripts, additional test results, work experience, or writing sample. Prior enrollment in the course does not exempt a student from the current prerequisite of that course.

Students who wish to challenge a prerequisite must submit a Prerequisite/Corequisite Chal-

lenge form. The form must be filed in the Counseling Department up to one week prior to the beginning of each term.

### Prerequisite/Corequisite Challenge Process:

1. Complete the Prerequisite/Corequisite Challenge form and attach documentation to establish your right to challenge this prerequisite/corequisite request. Examples of documentation include official or high school and/or college transcripts, international transcripts, certificates, test scores, etc.
  - a) If you are attempting to use high school coursework to meet a course prerequisite, official transcripts must be on file.
  - b) To challenge a math course, you must attach a copy of your Chaffey College assessment test results to the challenge form. Official high school transcripts must be on file with the Admissions and Records Office.
2. Meet with a counselor in the Counseling Department to assess whether you will benefit from the challenge process.
3. Register on or after your registration date. (Refer to the schedule of classes for the last day to add.)
4. The department coordinator will approve or deny the challenge within five (5) business days.
5. For approved challenge decisions, your form will be mailed back to you and you will be allowed to remain in the class.
6. For denied challenge decisions, you will be notified by telephone or email and your form will be returned to you by mail. The Matriculation Specialist will remove the prerequisite/corequisite course from your record, the Admissions Office will drop you from the class, and the Cashier's Office will process your refund.
7. If you wish to appeal the denied decision, you may do so by contacting the Dean in the school/department for the course you have challenged.

More information is available through the Counseling Department and the Chaffey College website. Questions regarding the challenge process should be directed to the Counseling Department at (909) 652-6200.

### LIMITATION ON ENROLLMENT

A limitation on enrollment, such as a TB test, CPR certification and others, etc., is a non-course requirement for entry into a course or educational program, without which a student will not be permitted to remain in the selected course or program. These requirements are frequently (but not always) driven by health and safety regulations and/or mandates by outside accrediting/licensing agencies.



**ADVISORY**

An advisory is defined in Title 5, section 55200 as: "A condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program." Since an advisory is not required, students will not be blocked from enrolling in a class if they do not meet the conditions of the advisory.

## COUNSELING AND MATRICULATION

Students are encouraged to meet with a counselor within their first six months at Chaffey College to develop a Student Educational Plan (SEP). Counselors will recommend appropriate coursework based on assessment results, review of previous college work and other information provided by the student. Appointments for an individual meeting with a counselor can be made by calling the Counseling Department at (909) 652-6200. For information on additional services provided by the Counseling Department, please refer to the Student Support Services section or visit our website at [www.chaffey.edu/counseling](http://www.chaffey.edu/counseling).

Matriculation services at Chaffey College are intended to assist students in establishing appropriate educational goals and to provide support services to help them achieve these goals. Students will be provided an evaluation of foundation skills, orientation, counseling, an educational plan, and follow-up services.

New and returning students are required to complete orientation, assessment, and complete education plan in order to receive a preferred registration date. High School Concurrent Enrollment students must complete assessment, orientation, and counseling before they may register for classes.

**ASSESSMENT OF FOUNDATION SKILLS**

Assessment testing is required for placement into English, ESL, and mathematics courses. Placement levels are based on a combination of test scores and other educational background information. Accommodations are available for individuals with disabilities. Chaffey uses multiple measures to place students into English, ESL, and mathematics courses

Testing facilities are available at all Chaffey campuses; specific dates and times can be obtained from the schedule of classes or by calling the Counseling Department at (909) 652-6200 or by visiting our website at [www.chaffey.edu/counseling/assessment](http://www.chaffey.edu/counseling/assessment).

**RE-TESTING PROCEDURES**

Students may take the assessment test no more than twice during their enrollment at Chaffey College. Students must wait three months after their initial assessment before re-testing.

**ORIENTATION**

Orientation introduces students to college services and educational programs and provides information on college policies, enrollment procedures, and important deadlines. Contact the Counseling Department at (909) 652-6200 for more information or check the college website at [www.chaffey.edu/counseling](http://www.chaffey.edu/counseling). Students interested in a more detailed orientation and/or instruction in college success skills may enroll in a Guidance course.

**STUDENT RIGHTS AND RESPONSIBILITIES**

Students are entitled to certain rights under matriculation procedures. These rights include: retaking the assessment test; being informed of any District investigations of complaints challenging matriculation regulations; being provided alternative services according to language or disability needs; and filing a complaint of unlawful discrimination if they feel the assessment, orientation, counseling or any other matriculation procedure is being applied in a discriminatory manner.

Matriculation requirements also include certain student responsibilities. Upon admission to the college, students must express a broad educational goal and provide transcripts from previous college work. They are encouraged to complete assessment and orientation prior to registering for classes and must develop a Student Educational Plan (SEP) with a counselor within their first six months at Chaffey College. Students are responsible for attending class, completing their assignments and coursework, and maintaining progress toward their educational goal.

**EXEMPTIONS AND REFUSAL**

Students may be exempt from matriculation services if they:

- Have earned an associate degree or higher (diploma or transcripts required), or
- Have completed certain coursework at another college (transcripts required), or
- Will enroll in one course only, with no intention of earning a degree at Chaffey, or
- Will enroll in performance/activity courses only.

Students have the right to refuse matriculation services and choose not to participate in assessment, orientation, and/or counseling. A student wishing to be exempt from these services based on one of the above criteria or wishing to decline participation must contact the Counseling Department to complete the necessary documentation. Students concurrently

enrolled in high school and participating in the High School Concurrent Enrollment are not eligible for exemptions and cannot refuse matriculation services. Students who have previously chosen to refuse matriculation services may reconsider and participate at any time.

## FEES

As a publicly supported community college, Chaffey provides low-cost education; students pay nominal fees at registration. In order to provide all students with access to a college education, the college offers Financial Aid to assist with financial obligations. Fees are assessed each term. Fees can be paid via the MyChaffey portal, in person, or by mail. Fees may also be paid via the NBS Tuition Payment Plan. For more information on the payment plan, please visit the website at <http://www.mycollegepaymentplan.com/chaffey>. All fees are due at the time of registration, including Enrollment fees, Health fees, College Services fee (optional), Technology fee (optional), Materials fees, Transportation fees, and if applicable, Non-Resident fees. Fees may be paid via cash, check, money order, VISA, MasterCard, American Express, or Discover. Stopping payment on a check, account entry error or insufficient funds does not constitute a withdrawal from classes and will result in a \$25.00 charge.

*Fees are subject to change. Consult the schedule of classes for the most current information.*

**AUDIT FEE**

The cost to audit a course is \$15.00 per unit. See page 27 for more information.

**ENROLLMENT FEE (Tuition)**

\$46.00 per unit for California residents.

**NON-RESIDENT ENROLLMENT FEE**

Non-resident tuition will be charged to students who have not established residency in the State of California for a period of one year prior to the day before classes begin. Non-Resident Enrollment Fee (U.S. Citizen and Non-U.S. Citizen) is \$257 per unit (\$200 per unit, plus \$11 capital outlay charge, plus \$46 per unit enrollment fee).

**HEALTH SERVICES FEE**

\$17.00 Fall and Spring; \$14.00 Summer (Non BOG Waiver students). This fee funds the Student Health Services Program. Certain laboratory tests and medications may require an additional fee. Usual clinic hours are 8:00 a.m. to 4:00 p.m., Monday through Thursday, 8:00 a.m. to 2:00 p.m. Friday. Evening appointments may be available. Services of physicians, nurse practitioners, and counselors are available by appointment by calling (909) 652-6331. Pursuant to section 76355 of the Education Code, students who

can provide documentation of active membership in a religious organization that relies exclusively on prayer for healing may request to have the Health Fee waived. Applications for waiver are available in the Student Health Services office. BOGW (Board of Governor's Fee Waiver) eligible students will be responsible for all or a portion of the Student Health fees. Please refer to the payment chart at <http://www.chaffey.edu/cashier/fees.shtml>.

### COLLEGE SERVICES FEE (Optional)

\$8.00 Fall and Spring; \$5.00 Summer. This fee funds Associated Students of Chaffey College (ASCC) programs and activities throughout the academic term, including (but not limited to):

- Annual scholarships (applications are available in the Office of Student Activities at the beginning of Spring semester)
- Lectures, special cultural events, and a variety of service projects for students and the community.
- Textbook rental program that is administered in the Chaffey College Bookstore
- Opportunity drawings and giveaways
- Emergency book grants
- Campus improvements
- Departmental grants

### PARKING (required on the Rancho Cucamonga, Chino, and Fontana Campuses)

- Auto Parking:
  - \$50.00 Fall and Spring Non BOG Waiver
  - \$30.00 Fall and Spring BOG Waiver
  - \$25.00 Summer
- Motorcycle Parking: \$20.00
- Daily Permits: \$4.00

### TECHNOLOGY FEE

Effective with the Fall 2014 semester, Chaffey College implemented a technology fee to help support the cost of providing student access to college technology. This fee is optional and will be used, for example, to help ensure that student computer labs are equipped with current hardware and software and to provide high-speed wireless access and connectivity to the internet. The technology fee is \$8.00 per term in the fall and spring and \$5.00 in the summer and will only be used for student-related technology. Students who choose not to support this fee must contact the Cashier's Office at [cashier.staff@chaffey.edu](mailto:cashier.staff@chaffey.edu) on or before the refund deadline for the applicable term.

### TRANSPORTATION FEE

The transportation fee allows all students to ride any of Omnitrans' fixed route bus services at no charge during the semester by using their student ID card. The fee is \$7.50 per student registered in six (6) or more units in the Fall and Spring semesters; \$7.00 per student registered

in less than six (6) units in the Fall and Spring semesters.

### Summer Bus Privileges

Bus Privileges will be extended through the Summer months to all students enrolled in the previous Spring semester. Students enrolling for the first time in Summer term will not be eligible to ride the bus until the start of Fall semester.

### SUPPLEMENTAL FEES

(This is not a complete list of fees; complete list is available from the Budgeting Services Office)

- Replacement of diploma or certificate: \$10.00
- Returned check fee and/or stop payment fee: \$25.00

### MATERIALS FEES

Most courses require a material/instructional usage fee. Charges vary and are subject to change. Students should consult the current Schedule of Classes for fee amounts, which are noted under the appropriate class description. Material fees are due at the time of registration and are not subject to waiver.

### DROP PROCESS FOR NON-PAYMENT

**Before the semester begins**, payment is due in full within 10 days (including weekends and holidays) from the date of registration. If payment is not received, all classes will be dropped.

**During the last 10 days of registration**, all fees are due in full prior to the start of the term. Classes will be dropped the day before the first day of instruction if fees are not paid. Once classes have been dropped for non-payment, the action cannot be reversed.

### PAST DUE FEES

Beginning the first day of instruction for the term, fees are due in full at time of registration. Payments not received the same day will result in a financial hold on the student account. Payment is due at time of registration for any class that begins after the first day of instruction for the term, including Fast-Track and late-start classes.

### Financial Holds

Financial holds will prevent access to grades, transcripts, diplomas, and registration privileges (Title 5, Section 59410).

### REFUND POLICY

#### Automatic Refund Process

Refunds will be processed automatically for the following:

- Credit amounts of \$20 or more
- Classes canceled by the college
- BOG Waiver reimbursements  
(No refund request required)

Automatic refunds will be processed within 45 business days after the last day to add full term classes (check the Schedule of Classes for specific dates). Refunds payments made by cash, check or money order will be issued in the form of a check and mailed to the current address on file. To ensure prompt delivery, address information should be checked often for accuracy and updated as soon as possible when changes are needed. If payment was made with a credit card, the refund amount will be credited back to the card.

### Eligibility Requirement for Refunds

Refunds will be issued for all classes that are dropped by the published refund deadline. The refund deadline date can be found on the registration receipt available on the MyChaffey portal. Classes must be officially dropped before ten percent (10%) of the class length has passed. The following fees are subject to refund: enrollment, health, materials, college service, and non-resident tuition. (California Code of Regulations, Title 5, Section 58508).

**Specific refund dates can be found on the Registration Receipt, available on the MyChaffey portal, or in the Schedule of Classes.**

### Refund for Parking Permits

Parking permits must be returned to the Cashier's Office on or before the appropriate refund deadline date for the current semester to be eligible for refund.

### Refund for Canceled Classes

Refunds will be issued automatically for all cancelled classes. A refund request is not required.

### Financial Aid BOG Waiver Account Re-Bill/Reimbursement

Students who paid for classes prior to receiving a BOG Waiver will receive a refund 45 business days from the day the BOG Waiver is processed. The BOG Waiver must be processed and posted to the student's account by the last day of the current semester. For information related to waiver of enrollment fees, contact the Chaffey College Financial Aid Office at 909/652-6199.

### Refund Policy for Amounts Less than \$20

Refunds for credit amounts less than \$20 are not automatic and must be requested by the student via email:

- Refund requests for a credit amount less than \$20 must be received by the Cashier's Office on or before the last day of the current semester.
- To make a refund request, the student must send an email to [cashier.staff@chaffey.edu](mailto:cashier.staff@chaffey.edu).

- For security reasons, the following information is required:
  - o Student's full name
  - o Chaffey ID Number
  - o Refund credit amount (registration receipt is available on the MyChaffey portal)

The refund process will begin once all required information is received. Refunds will be processed within 45 business days from date of the email request.

### FINANCIAL RESPONSIBILITY

Student grades, transcripts, enrollment and degree verifications, diplomas, and registration privileges will be withheld pending settlement of any outstanding obligation to the college. Past due fees must be paid by cash, money order, cashier's check, Visa, MasterCard, American Express, or Discover. Unpaid balances will be referred to the Franchise Tax Board for collection. For more information visit [www.chaffey.edu/cashier/cotop\\_faq.shtml](http://www.chaffey.edu/cashier/cotop_faq.shtml)

## COLLEGE COSTS

If you would like to know more about calculating the costs associated with attending community college, please use the following links to determine expenses:

- <http://collegecost.ed.gov/catc/default.aspx>
- <http://www.icanaffordcollege.com/enus/aboutcommunitycolleges/collegecosts.aspx>
- <http://www.chaffey.edu/finaid/> (click "Cost of Education")

## FINANCIAL AID

Chaffey College School Code required on the FAFSA (Free Application for Federal Student Aid): 001163

### Financial Aid

The Financial Aid Office administers a number of programs funded by the federal, state and private sources designed to help students with limited resources meet their educational expenses. Awards may come from one or more or any combination of grants, scholarships or federal work study. All Chaffey College students may be eligible for some form of assistance based on their financial need and may apply for aid by filing a Free Application for Federal Student Aid (FAFSA).

### How & When to Apply

Eligibility for Financial Aid is determined by completing the FAFSA (Free Application for Federal Student Aid) application online at [www.fafsa.gov](http://www.fafsa.gov). Be sure to include Chaffey Col-

lege's school code 001163. A FAFSA (Free Application for Federal Student Aid) must be completed for each academic year and one FAFSA serves throughout that entire academic year (summer, fall & spring). The ideal time to apply is between January 1 and March 2 for the following academic year to assure your application is processed in timely manner in preparation for fall and spring terms. The priority deadline to apply is March 2nd; however, you can still apply after this date. Be aware that some awards are offered on a first-come, first-serve basis.

### Late Applicants

If you miss the Financial Aid Priority Deadline for the term in which you wish to enroll, you still are strongly encouraged to apply for financial aid. Your application will be accepted and processed; however, it may not be processed in time for you to use your financial aid to pay for your fees and books. If this is the case, you may need to pay your fees and purchase your books; then if it is determined that you qualify for financial aid, you will be reimbursed later in the term.

### Process of Determining Financial Aid Eligibility

After completing the FAFSA, you will receive a "Student Aid Report" (SAR) within 24-48 hours by email or four weeks by mail from the federal processor. Carefully review your Student Aid Report (SAR). It may include an Expected Family Contribution (EFC), estimated aid amounts or indicate if additional documentation is required. The Financial Aid Office will also receive a copy of your FAFSA results electronically. You will receive an email notification indicating if awards are available or if additional documentation is needed. You may check this information through MyChaffeyPortal at MyChaffeyView, then click on Financial Aid and use the "My Documents" section to view if further information is needed. Be sure to update your admissions records with a valid email address.

### Basic Financial Aid Eligibility

- Must be enrolled in a degree, certificate, or transfer program
- Be a U.S. citizen or an eligible non-citizen, such as a permanent resident
- Not be in default on a prior student loan
- Not owe a repayment or overpayment of a federal grant
- Have a valid SSN
- Have a high school diploma, GED or equivalent
- Demonstrate financial need
- Be registered for Selective Service if required
- Maintain Satisfactory Academic Progress Policy requirements as defined by the Chaffey College financial aid office

- Have "financial need" as determined in part by submitting the FAFSA

### Payment of Financial Aid

Financial Aid payments will be made to eligible students with complete financial aid files, who have accepted their offered awards on MyChaffeyPortal, are enrolled in courses that apply toward a degree, certificate or transfer program and meet Satisfactory Academic Progress per criteria established by the Chaffey College Financial Aid Office

Payment is based on the number of full-term units at the time of calculation (calculations are made approximately 5-8 days before disbursement). Late start classes must begin for units to be included in the first disbursement; otherwise they will be included on subsequent disbursements. Payment will be adjusted according to enrollment status.

Awards are based on full-time enrollment status; however, students are not necessarily required to enroll in full-time units to receive aid. If students are enrolled in less than full-time for the semester, disbursement will be adjusted in accordance with the enrollment status.

The maximum financial aid amount is allocated for enrollment as a full-time student (12 or more credits) and there are specific payment allocations for enrollment as a part-time student: three-fourths of the maximum financial aid amount for nine through 11.5 credits; one-half of the maximum amount for six through 8.5 credits; and less than half time for 0.5 to 5.5 credits, amount will be prorated; not all students are eligible at less than half time enrollment. Your financial aid award amount may be adjusted based on your enrollment status.

\*All Disbursements are contingent upon funding. Cal Grant disbursements are contingent upon funding from the State. Cal Grant and FSEOG funds will be released in one payment per semester. All financial aid Grant funds are disbursed electronically. Eligible students will be issued a My Chaffey Debit Card and will need the card to choose a refund preference. Your disbursement method options will include: MyChaffey card, or ACH transfer (Direct deposit into your personal account), Please visit [www.chaffey.edu/financialaid](http://www.chaffey.edu/financialaid) for more information.

### FUNDING SOURCES BOG Fee Waiver

The Board of Governors Fee Waiver (BOGW) program is available for qualified California residents. The BOGW waives mandatory enrollment cost per unit (.5 to maximum unit load)

and a portion of the parking fee. BOGW eligible students will be responsible for all or a portion of the Student Health fees. Fee waivers do not apply to class material fees or the College Services fee. Students are responsible for making sure all fees have been paid.

This is financial aid that does not have to be repaid. The BOGW is valid for the entire academic year beginning with summer and ending with the following spring semester. To apply, complete the FAFSA online. The Financial Aid Office will receive the results of the FAFSA and award the waiver automatically to eligible students. Awards may be viewed on MyChaffeyView via the MyChaffey Portal. If you are not a California resident, you may be eligible to apply for a tuition exemption through the AB 540 Non-Resident Fee Waiver. See Admissions and Records for additional information or view our consumer guide online.

Students who qualify for the AB 540 Non-Resident Tuition Exemption may be eligible for Cal Grant and BOGW online at <https://dream.csac.ca.gov>. Please visit the Financial Aid Office for more information regarding the Dream Act Application or visit the Dream Act website at [www.csac.ca.gov/dream\\_act.asp](http://www.csac.ca.gov/dream_act.asp).

#### **New Board of Governor's Fee Waiver Policy**

The new policy, which takes effect in fall of 2016, is a key component of the Board of Governors' Student Success Initiative. Under the new regulations, students will lose eligibility for the Board of Governors Fee Waiver (BOGW) if they are on academic probation for two consecutive primary terms (fall and spring semesters are primary terms). Loss of eligibility will become effective at the first registration opportunity after such determination is made. Foster youth are exempt from this change and will not lose the BOGW eligibility based on academic probation. Students with extenuating circumstances will have the opportunity to appeal the loss of the BOG waiver.

#### **Federal Pell Grants**

Federal Pell Grants are need-based and awarded to every undergraduate student who qualifies. In most cases, these grants DO NOT need to be paid back. These grants may be used for tuition, fees, books, transportation, and living expenses. Initial awards are estimated based on the results of the FAFSA. Estimates will change if any criteria used to determine your eligibility, such as major, degree status, satisfactory academic progress, income or family information changes. Actual payment will not be determined until your file is completed and enrollment status is verified. The amount of the Pell Grant disbursed is based on your Expected Family Contribution and enrollment status. You may

even receive a Pell Grant if you attend school less than half-time provided you are otherwise eligible.

Students are only eligible to receive a Pell Grant for 6 years (12 full-time semesters). This includes all semesters the Pell Grant has been received during a student's educational lifetime. Students can view their current Pell Grant usage online at [www.nsls.ed.gov](http://www.nsls.ed.gov) using the FAFSA PIN to access grant history.

#### **Federal Supplemental Educational Opportunity Grant (FSEOG)**

Federal Supplemental Educational Opportunity Grant is a need-based federal grant available to undergraduate students with the highest need. Priority is given to Pell Grant recipients with a zero Expected Family Contribution (EFC) who meet the priority filing deadline (March 2nd). Funding for this program is limited with a maximum amount of \$1,000 for the academic year.

#### **Federal Work Study (FWS)**

Federal Work Study is a need-based federally funded part-time employment program, which allows eligible students to earn money to help pay for educational expenses. Students may work up to 20 hours per week and earn a monthly paycheck. Federal Work Study awards are determined by financial need and are available to students enrolled in six (6) units or more per semester. FWS job listings are posted in the Student Employment Office for eligible FWS students and are filled on a first-come, first-serve basis.

#### **Cal Grants**

Cal Grants are state funds awarded in addition to the Federal Pell Grant. Cal Grant recipients are selected by the California Student Aid Commission (CSAC). To apply for the Cal Grant program, you must submit the FAFSA or California Dream Act Application (beginning in 2013) and your verified Cal Grant GPA by March 2nd (priority deadline). If you do not meet the March 2nd priority filing deadline, you may have a second chance to compete for a Cal Grant by filing the FAFSA or California Dream Act Application (beginning in 2013) and your verified Cal Grant GPA by September 2nd.

**Cal Grant B** assists low-income students attending community colleges with living expenses and books. The award is \$1,473 for the year and may be used for books, living expenses and transportation.

**Cal Grant C** assists students with tuition and training costs for technical, occupational, vocational or career training programs. The award includes up to \$547 for books, tools and equipment. Funding is available for up to two years, depending upon the length of the program. To

qualify, you must enroll in an occupational, technical or vocational program that is at least four months long at a California Community College. To find out more information visit [www.csac.ca.gov](http://www.csac.ca.gov).

#### **Chafee Grant**

The California Chafee Grant Program awards up to \$5000 annually to eligible foster youth and former foster youth between the ages of 16 and 22 years to use for college courses or vocational school training. The Financial Aid Office disburses Chafee Grant in accordance with the regulatory statutes of this program. For more information visit [www.chafee.csac.ca.gov](http://www.chafee.csac.ca.gov).

#### **Scholarships**

Scholarships are usually, but not always, based on a combination of need and merit. Some scholarships are based on your major, community service, educational goals or other criteria. It is free money that does not need to be paid back. Available scholarships are listed year-round on the Financial Aid website (<http://www.chaffey.edu/foundation/scholarships/index.shtml>). Students may also contact Student Activities and the Chaffey College Foundation office for other available scholarship opportunities.

#### **Satisfactory Academic Progress (SAP)**

Students who receive financial aid at Chaffey College must maintain the standards for Satisfactory Academic Progress. All students receiving any form of financial aid must meet the standards of progress outlined below.

Satisfactory progress requirements are:

- Students are required to complete at least 67% of the number of units that they have attempted at Chaffey College, and
- Students must maintain at least a cumulative 2.0 Grade point average (GPA) or higher and
- Students are allowed a maximum of 72 total units attempted when receiving financial aid.

Federal regulations set the maximum time frame in which students must complete their educational program as 150% of the published program length at Chaffey College. (i.e. if the published length of a program is 60units, then the student must complete his or her program by the time he or she reaches 90 attempted units Transfer credits are included.

Become familiar with Chaffey College Satisfactory Academic Progress Policy by visiting: [http://www.chaffey.edu/finaid/sap\\_policy.pdf](http://www.chaffey.edu/finaid/sap_policy.pdf)

#### **Important Facts**

In the event that a financial aid applicant at Chaffey College enrolls in coursework and then completely withdraws from all coursework may



be subject to repayment of Federal Financial Aid funds. In this case, a student will be billed for the amount of aid that must be repaid, and holds will be placed on your record until the overpayment is resolved.

Federal regulations require that Financial Aid Office performs a calculation to determine how much financial aid a student has earned. This calculation is called a "Return to Title IV" calculation. (Title IV refers to Federal Financial Aid programs) The Financial Aid office uses a federal formula to determine how much aid a student earned based on his/her last day of attendance. Federal Law also requires that students who received federal Title IV aid and drop classes will be required to pay back some of the aid received. Information regarding reduced enrollment as required by regulations is available at [www.chaffey.edu/financialaid](http://www.chaffey.edu/financialaid)

## HIGH SCHOOL CONCURRENT ENROLLMENT

High school students may enroll at Chaffey College through concurrent enrollment to pursue advanced scholastic or vocational education (Education Code 48800(a)). Eligible students must have completed the 10th grade and have a minimum cumulative GPA of 2.5. High school students attending Chaffey for the first time must complete an online application, and submit official transcripts, the High School Certification Form, the Parental Advisory Form, and the Emergency Contact/Internet Usage and Waiver of Liability Forms. Continuing high school students do not need to reapply online each semester, but must submit the required documentation from the high school registration packet. Registration dates will be assigned based on date of receipt of completed packet.

Home schooled programs for grades 11-12 must meet State guidelines for special admit students in order to apply for admission. The signature of a school affiliate is required on the High School Certification Form. Home schooled students who are not able to obtain a school affiliate signature must achieve a placement recommendation in English 475 or higher and Math 410 or higher on the Chaffey College assessment test. If the preceding scores are not achieved, the student may repeat the assessment test the following semester.

The student's Chaffey ID number, and a link to the High School Registration Packet will be included in their registration e-mail. Students may not register until they have completed all the steps in the registration packet including returning all required documents and completing assessment, orientation, and counseling. The High School Certification Form must be

completed by the high school principal or designee. Only the principal/designee may complete Part A of the form listing the recommended courses, which cannot be remedial in nature (courses numbered 500-599). Enrollment in KINACT courses are restricted to adult students who are no longer enrolled in high school. However, high school students may continue to enroll in KINLEC courses such as KINLEC 15 – "Diet and Fitness" with the permission of the high school counselor or designee. Selected seniors may be eligible to enroll in KINTM courses. All high school students participating in the High School Partnership Program must attend the first day of class. Both the principal or designee and the student must sign the Certification Form.

The Parental Advisory Form must be completed and signed by the parent or legal guardian. The Emergency Contact/Internet Usage and Waiver of Liability Forms must be completed and signed by the parent or legal guardian and the student. All of the above required documents must be returned to the Admissions and Records Office, along with official high school transcripts. Students should fulfill all High School Partnership requirements at least two weeks prior to the assigned registration date to avoid delays.

High school students must register in person in the Admissions and Records Office at any Chaffey College campus on or after their assigned registration date. Up to eight units may be taken in fall/spring term and six units in summer, selected from the recommended courses on the High School Certification Form.

Enrollment, health, technology, and college service fees are waived for high school students who reside in and/or attend a high school within the Chaffey College District. Other costs (e.g. materials fees, books, parking, transportation fee) must be paid by the student.

High school students who reside in California but outside of the Chaffey College District must pay all fees including resident enrollment, health, transportation, technology, and college service fees. High school students classified as non-residents of California (for tuition purposes) and/or the United States must also pay out-of-state tuition fees.

All high school students participating in concurrent enrollment must attend the first day of class. For more information on high school concurrent enrollment, visit our website at [www.chaffey.edu/admissions/high\\_school.shtml](http://www.chaffey.edu/admissions/high_school.shtml) For information on assessment, orientation and counseling, contact the Counseling Department at (909) 652-6200 or visit our website at [www.chaffey.edu/counseling](http://www.chaffey.edu/counseling).

## HIGH SCHOOL APPEALS PROCESS

The appeals process applies to high school students who do not meet the high school admissions criteria, but have strong potential for academic success in a college setting. For more information on the appeals process, visit our Web site at [www.chaffey.edu/admissions](http://www.chaffey.edu/admissions) and select the High School Partnership link.

## HIGH SCHOOL CAREER TECHNICAL EDUCATION (CTE) CAREER TRANSITIONS (formerly Tech Prep)

High School/ROP students who attend CTE courses articulated with Chaffey College may be able to earn advanced placement or college credit. For additional information contact your counselor, career technician or Career Transitions at Chaffey College at (909) 652-6831.

## STUDENT CLASSIFICATIONS AND PROGRAMS

### AIR FORCE RESERVE OFFICER TRAINING CORPS

Air Force Reserve Officer Training Corps (AFROTC) is a nationwide program that allows students to pursue commissions (become officers) in the United States Air Force (USAF) while simultaneously attending college. AFROTC consists of four years of Aerospace Studies classes (Foundations of the USAF, Evolution of USAF and Space Power, Air Force Leadership Studies, and National Security Affairs/Preparation for Active Duty), and a corresponding Leadership Laboratory for each year (where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies). College students enrolled in the AFROTC program (known as "cadets") who successfully complete both AFROTC training and college degree requirements will graduate and simultaneously commission as Second Lieutenants in the Active Duty Air Force.

Classes are offered at California State University, San Bernardino; however, UCR students may enroll using our cross-town agreement. For more information on AFROTC course descriptions, please review <http://catalog.csusb.edu/>. For more information on the AFROTC program, please call (909) 537-5440 or visit <http://afrotc.csusb.edu/>.

### AMAN/AWOMAN

"Connect to Succeed" is the philosophy of the AMAN/AWOMAN Project. This project is a culturally responsive approach to reaching students and providing an environment to survive and thrive. Participants receive a variety of tools and resources that will assist them in navigating the Chaffey College campus and com-



pleting their goals. Through mentoring and counseling, students from a wide variety of backgrounds are connected to strategies and activities that promote achievement and self-esteem. Although the program is specifically designed to assist African-American students, all students are welcome to join. For more information, contact Donna Colondres at (909) 652-6226.

### CALIFORNIA INSTITUTION FOR WOMEN (CIW)

The college has partnered with the California Institution for Women in Chino (a state correctional facility) to provide education to a select cohort. The students follow an educational plan which leads to an Associate of Arts degree in Liberal Arts and prepares them for transfer to four-year institutions. All courses are taught through distance education by Chaffey faculty (e.g., taped lectures on campus and written correspondence) because of state restrictions on face-to-face instruction in a facility closed to the public. By working through the Extended Opportunities for Students (EOPS) program, the college ensures that the CIW students receive the same services traditional students enjoy. The prison has a Success Center, tutors and a small computer lab available to increase academic success.

### COOPERATIVE EDUCATION (WORK EXPERIENCE)

Cooperative Education/Work Experience provides students with the opportunity to use their part-time, full-time, or internship position to earn elective credit. On-campus work-study positions also qualify. Students obtain practical on-the-job experience and knowledge related to their career or educational goals. Students gain an understanding of the relationship between classroom theory and the world of work and improve their career development skills and their employment opportunities while enrolled in Cooperative Education. Under the supervision of college faculty and the job supervisor, students prepare a job-related learning agreement which serves as a guide to their Cooperative Education experience.

The Cooperative Education Office is located on the Rancho Cucamonga Campus within the Career Center. Students may contact the Cooperative Education Office at (909) 652-6190 to schedule an appointment.

### HONORS PROGRAM

The Honors Program improves the quality of education, provides challenges, and motivates academically talented students who strive for advanced academic achievement toward established long-range educational goals. Students are offered courses with particular rigor and subject enrichment, along with opportunities for involvement in service activities. Additionally,

these students may be given guaranteed transfer priority to those colleges with articulated agreements with Chaffey. Transcripts of graduating honors students document that students have earned honors credits - records are highly regarded by any accredited college or university. Chaffey College has articulated Honors Program agreements with certain UCs, CSUs and private colleges and universities. A complete list is available in the Honors Office in SSA-145.

### Affiliation

Chaffey is a member of the National Collegiate Honors Council, the Western Regional Honors Council, and the Honors Transfer Council.

### Criteria for Enrollment

- High school GPA of 3.2 or college GPA of 3.2 after the minimum of 12 units of transferable courses.

#### *Plus one of the following:*

- Two letters of reference from high school or college faculty members which address a student's academic abilities and motivation.
- Combined SAT score of 1000 or above, or ACT score of 26.
- Successful completion of two Chaffey honors courses with grades of A or B, or completion of three advanced placement classes in high school.
- Evidence of special competence or creativity.
- Nomination by a Chaffey faculty member.

### Criteria for Fulfillment of Honors Program

- GPA of 3.2 in transferable courses.
- GPA of 3.2 in honors courses.
- Completion of 18 semester units in Chaffey Honors Program (up to 6 units may be accepted from another institution).
- Completion of Associate Degree, or fulfillment of admissions requirements to a 4-year institution.
- Submission of "Intent to Complete Honors Transfer Program" form.
- Community service and enrichment activities.

### Student Honor Society

Phi Theta Kappa is the national student honor society. Honor students with a 3.50 cumulative GPA may become members of Phi Theta Kappa and may graduate with honors.

### INTERNATIONAL STUDENTS

Chaffey College welcomes students from all over the world. Approximately 200 students from 40 countries are enrolled at Chaffey College and provide cultural enrichment to the college community. An international student is defined as a student who has entered the United States temporarily and solely for the purpose of study, and has a permanent residence in another country that he/she has no intention of abandoning. These individuals must contact the

International Student Center in CCE, Room 123, on the Rancho Cucamonga Campus or check the program's website at [www.chaffey.edu/international](http://www.chaffey.edu/international) before starting the registration process. Individuals on a B1/B2 Visitor's Visa may not enroll in classes at Chaffey College, however, prospective students holding any type of Visa may obtain information from the International Student Center or the Admissions and Records Office at (909) 652-6600. Office hours are: Monday through Friday 8:00am-4:30pm.

For appointments and information regarding the program, students may call the International Student Center at (909) 652-6195 or e-mail the center at [intlstudents@chaffey.edu](mailto:intlstudents@chaffey.edu).

A variety of services are provided to international students such as guidance and assistance to maintain F-1 (student visa) status, information and assistance regarding change of status processes, academic guidance, career development, housing/homestay referrals, social and cultural activities and many other services geared to meet the specific needs of international students attending Chaffey College. A medical insurance mandate requires all international students to purchase a medical plan. Failure to obtain medical insurance will result in delays or holds for class registration and/or the release of official records.

A mandatory medical insurance program requires all international students to purchase a medical plan. Medical insurance is included as a mandatory fee, requiring payment prior to registering for classes. Failure to obtain insurance will result in delays or holds for registration and the release of official records.

### Transcript Evaluation for International Transcripts:

Chaffey College accepts the following Transcript Evaluation Services of international transcripts:

- Academic and Professional International Evaluations, Inc.
- Academic Credentials Evaluation Institute
- American Education Research Corporation (AERC)
- Educational Credential Evaluators, Inc.
- Educational Records Evaluation Service
- Institute for International Credentials Evaluation at CSU Fresno
- International Education Research Foundation, Inc. (IERF)
- World Education Services, Inc. (WES)

Note: Credits from an evaluation service are counted as earned credits only. Grade point averages from foreign institutions are not included on the Chaffey academic transcript. For specific information, contact the Admissions and Records Office.

### ONLINE TO COLLEGE

Chaffey College's Online to College program is a collaboration among the Montclair Community Collaborative, City of Montclair, Ontario-Montclair School District, Chaffey College Foundation, Montclair businesses, and participating schools.

The program is designed to prepare and educate the community that attending college is a viable option for their youth. Beginning in 5th grade, students from Lehigh, Kingsley, and Monte Vista elementary schools are introduced to college through classroom presentations and Chaffey College campus tours. As students enter Vernon or Serrano Middle schools, age-appropriate curriculum is introduced to students and their parents to enhance their knowledge about college. When students enter Montclair High School, the Chaffey College Online to College team is ready to assist them with the transition into college through workshops, assessment testing, educational planning, after-school college courses and weekend programs. For more information about the program, please call (909) 652-6113.

### OPENING DOORS TO EXCELLENCE

Chaffey College offers a comprehensive program to assist students experiencing academic difficulty. *Opening Doors* assists students on second level probation.

Opening Doors offers specialized counseling, orientation and information sessions, guidance courses and directed learning activities at the Success Centers. For more information, contact the Opening Doors to Excellence program at (909) 652-6201 or visit [www.chaffey.edu/counseling/opening-doors](http://www.chaffey.edu/counseling/opening-doors)

### PUENTE PROJECT

An outgrowth of the Puente Project founded in 1981 at Chabot College in Hayward, the Puente Project is designed to provide individual assistance to students interested in transferring to four-year colleges and universities. Puente students are provided with intensive English instruction, focused personal counseling, introductory tours of UC and Cal State campuses, and helpful personal mentoring.

Prospective students must be eligible for English 475 at the time of application, and must write an essay describing their academic and career goals, and how participation in Puente would assist in their success. Applications and essays are evaluated by the Puente Program faculty, who select 30 students each year for participation in the program.

More information and application forms are available in Counseling and online at [www.chaffey.edu/puente](http://www.chaffey.edu/puente) or contact Monica Padilla at (909) 652-6208.

### Study Abroad

Chaffey College is a member of the Southern California Foothills Consortium for Study Abroad, a cooperative venture among the community college districts of Antelope Valley College, Barstow Community College, Citrus College, College of the Canyons, College of the Desert, Crafton Hills College, Mira Costa College, Mt. San Antonio College, Mt. San Jacinto College, Rio Hondo College, San Bernardino Valley College, and Victor Valley College, in partnership with the American Institute for Foreign Study (AIFS). This partnership allows students to make normal progress toward their undergraduate degrees while utilizing foreign resources and cross-cultural experiences. Currently the program offers students an opportunity to study in London, England (fall) and Salamanca, Spain (spring). Please contact the Language Arts office for more information, (909) 652-6904.

### VETERANS

The Veterans Administration (VA) specifies a minimum load for educational benefits:

FALL AND SPRING	STATUS
12 units or more	Full-time Student
9-11 units	3/4 time Student
6-8 units	1/2 time Student
Less than 6 units	Less than half time

**SUMMER:** See Veteran's officer in the Veterans Resource Center for unit requirements.

All veterans and eligible dependents who wish to receive VA educational benefits while attending Chaffey College are required to meet with a counselor in the Veterans Resource Center for a Veteran's Program Check. Official transcripts of all previous college work must be evaluated prior to this meeting.

Student Veterans may request priority registration; students wishing to collect benefits must first meet with the School Certifying Official (SCO) in the Veterans Resource Center to begin the process. Students not wishing to collect benefits may also request priority registration through the SCO. For more information, please visit [www.chaffey.edu/vets](http://www.chaffey.edu/vets).

If the grade point average of a student receiving VA educational benefits is below the graduation requirement of 2.0, the student will not be certified for VA educational benefits until his or her academic status is restored to good standing. Students with GPA's less than 2.0 may be certi-

fied for up to two terms on probation, provided the student has shown marked improvement upon completion of the probationary term as defined in the Conditions for Improvement. If after the second probationary term the student's cumulative grade point average does not meet the graduation requirement of 2.0, the student will not be certified until the Conditions of Re-entry for Students Receiving VA Educational Benefits have been met.

**Conditions for Improvement:** If the student's probationary term grade point average is 2.0 or above, the student may be certified for an additional probationary term, even if the cumulative grade point average does not yet meet the graduation requirement of 2.0.

**Conditions of Re-entry for Students Receiving VA Educational Benefits:** The student will be granted re-entry for the purposes of VA educational benefits after the student has restored his or her grade point average to the graduation requirement of 2.0.

### • Program Changes

Veterans and eligible dependents are considered the same as all other students in regard to attendance and academic requirements by Chaffey College.

### • Military Credit

A veteran may request credit for military science and tactics. If approved, the student may be granted 2 semester units of elective credit towards graduation for every 180 days of active service (including basic training), to a maximum of 8 semester units (E.C. 78230). A copy of the DD214 or other official documents must be submitted to the Admissions and Records Office to verify length of service and honorable discharge. The DD214 is also used to clear Area E on the CSU-GE pattern (per CSU Executive Order 1035).

Elective credit toward graduation from Chaffey College for service schools completed while serving in the Armed Forces, Armed Forces Reserve, or National Guard may also be requested. A separate request for evaluation must be submitted for each school completed and exact information must be provided to complete a proper evaluation and verify completion of service school training. A maximum of 15 semester units for basic training plus service schools completed may be granted to a veteran toward graduation from Chaffey College.

# ACADEMIC INFORMATION

## DEFINITIONS

### CATALOG RIGHTS/MATRICULATION

Requirements shown in this catalog apply to any student entering (matriculating) Chaffey College during the Fall 2015, Spring 2016, or Summer 2016 terms. See the section on Graduation Requirements on page 34 for more information. Other requirements such as minimum grade point average for admission to a program, course prerequisites and corequisites, textbooks, course content, software, etc., may change over time at the discretion of the college.

### UNIT OF CREDIT

The California State Education Code defines a college unit of credit as approximately one hour of class plus two hours of study per week, or three hours of laboratory per week, carried through the term.

### HOURS AND UNITS OF CREDIT

Class	Unit of Credit	Hours per Term
Lecture	1	16-18
Laboratory or Studio (including open-entry)	1	48-54
Independent Study	1	16-18
Work Experience	1	60(unpaid) 75(paid)

### UNIT LOAD

The number of units a student enrolls in each semester. An average of 15 units each semester is necessary for a student to progress at a rate which may lead to graduation in four semesters (two years).

To be considered a full-time student, a student must carry a minimum of 12 units per semester.

## ATTENDANCE AND PARTICIPATION

### GENERAL

Ideally, students are expected to attend every meeting of every class for which they are enrolled.

Instructors may develop specific policies and procedures related to attendance and participation for their individual classes. These policies and procedures are distributed to students, in writing, at the beginning of the term, and it is expected that students will adhere to the standards set forth.

### FIRST CLASS MEETING

Students are required to attend the first meeting of each class in which they are registered or they may be dropped from the class. Students taking online classes are required to log in on their required day and time to satisfy the first class meeting requirement.

**NOTE: Please remember, it is a student's responsibility to drop or withdraw from classes in which they are registered but cannot attend.**

### ABSENCE FROM CLASS

The student is responsible for completion of the required assignments. Should a student find it necessary to be absent from class, he or she should make arrangements with the instructor before the absence to complete all assignments for the class missed. It is an instructor's option to provide makeup quizzes, examinations, lectures, or lab work missed due to absence.

## ACCELERATED LEARNING (FAST TRACK CLASSES)

Chaffey's multi-pronged Fast-Track initiative is designed to shorten the time needed by students to complete requirements for graduation and/or transfer. Some accelerated offerings consist of two sequential courses packaged together in a single semester, with both the first and second class taught by the same instructor in the same time/day slot. Students may be able to enroll in both classes at the same time, or have the option to enroll in the 2nd session class later if seats are available.

Other non-paired Fast Track classes provide students the ability to complete two general education and/or program applicable courses in a single term.

## DISTANCE EDUCATION

Chaffey College has an extensive course listing in several different distance education modalities and offers several certificates that can be obtained via distance education. Distance education courses are taught by distinguished Chaffey faculty and fulfill general education, elective and/or major requirements. They are academically equivalent to on-campus courses, with some classes transferable to four-year institutions. Chaffey offers two basic types of distance education classes: online and hybrids. In online classes, students attend classes via the Internet. While these classes have due dates and times for assignments, students can

attend class anytime or anywhere a computer with Internet capabilities is accessible. Hybrid courses are a combination of face-to-face and online instruction. Students meet on campus on the designated days and times, as well as receive instruction online.

For more information about Distance Education and to determine if you, as a student, are ready for Distance Education class contact the Chaffey College Distance Education office at (909) 652-6975; via e-mail at [OnlineEd@chaffey.edu](mailto:OnlineEd@chaffey.edu); or visit the Chaffey College website at [www.chaffey.edu/onlineed](http://www.chaffey.edu/onlineed).

## FINAL EXAMINATIONS

Final examination hours and dates are published in the schedule of classes. Final examinations for short-term classes are given during the last class meeting or during finals week as published in the schedule of classes.

The established final examination schedule cannot be changed without approval from the Vice President of Instruction.

Students may petition to take a final examination at a non-scheduled time due to exceptional circumstances. Petition forms are available in each school office and must include the instructor's approval and signature.

## SCHOLASTIC ACHIEVEMENT

### RECOGNITION

Scholastic achievement, leadership, and community service are recognized by Chaffey College through a variety of honors and awards. The majority of these are sponsored by college and campus organizations; however, a number are made possible by community organizations.





## HONOR LISTS

Two scholastic honor lists are prepared each fall and spring semester. Achievements are recorded on students' official transcript.

### Exemplary Achievement List:

Students who complete a standard semester with a 4.00 GPA in **12 or more degree applicable units**.

### Dean's Honor List:

Students who complete a standard semester with a 3.50 GPA in **12 or more degree applicable units**.

## HONORS AT GRADUATION

Students who have earned an associates degree and have a 3.50 GPA or above in degree applicable units will graduate with honors. GPA for Honors at Graduation (listed in commencement ceremony booklet) is computed after the Fall semester grades are recorded on the transcript for spring commencement.

## VALEDICTORIAN FOR SPRING COMMENCEMENT CEREMONIES

To be eligible for selection as valedictorian for Spring commencement ceremonies, students must have earned an associates degree and a cumulative 4.00 GPA in degree applicable units, and have completed a minimum of 12 degree applicable units at Chaffey College each consecutive term, except the first term in college may be fewer than 12 units.

## PARTICIPATION IN COMMENCEMENT CEREMONIES

Students may participate in the Spring commencement ceremonies only during the academic year that they have completed all required coursework.

## CREDIT BY EXAMINATION

### Chaffey College Internal Testing

Registered students who have substantial prior experience in the content of college-level courses and who can present evidence may petition to receive credit for courses listed in the college catalog which are approved for Credit by Examination. Any course listed in the course description section of the Chaffey College catalog bearing the designation [Cx] after the course title may be challenged for credit by examination with the consent of the instructor in the appropriate administrative unit and after admissions eligibility criteria are met. A department (discipline area) may establish a limit on the number of courses that may be challenged for credit by examination. Contact the subject area Dean's office for more information. Credit by examination is subject to the following regulations:

- The Chaffey Community College District will grant credit to any student who satisfactorily passes an examination in accordance with the credit by examination policy and procedure. Such credit will be granted only to a student who is registered in the Chaffey Community College District; who has earned at least 12\* units of credit from Chaffey College; who is in good standing (cumulative GPA 2.0); who has met all course prerequisites; who has not previously received a grade for the course; who is not currently enrolled in the course; and only for a course listed in the college catalog that specifies it may be challenged through the credit by examination policy.
- Units earned through credit by examination shall not be counted toward the 12-unit residency requirement for graduation.
- There is a \$25 fee for credit by examination testing.
 

\*The credit by examination [Cx] twelve unit course credit requirement is waived for high school students enrolled in articulated tech prep courses.
- Applications for credit by examination are available in the Admissions and Records Office at any of our three campus locations.

It is the policy of Chaffey College that only unit credit is granted upon successful completion of any of the four options offered above. A grade of P will be issued, which is equivalent to a C or better grade. No letter grade is assigned; no grade points are assigned; thus, it is not computed in the grade point average.

### Credit for External Examinations

Chaffey College awards credit for specific examinations and scores of external programs. Approved programs are the College Board Advanced Placement (AP) Examinations, the College Level Examination Program (CLEP) and the International Baccalaureate (IB). Some general education categories for Chaffey College, CSU-GE Breadth and IGETC may be fulfilled by AP and IB examinations with approved scores. Chaffey College and the CSU also recognize certain CLEP examinations/scores toward completion of general education areas. The University of California does not award credit for CLEP examinations.

The institution to which a student transfers determines the total number of units awarded for successful completion of external examinations,

and the applicability of the examination to course equivalency, major and other graduation requirements. Students planning to use AP, IB or CLEP credit toward transfer requirements are advised to consult with a Chaffey College counselor, the Transfer Center and the planned transfer institution for information on policies and procedures. Publications and on-line references for the CSU, UC and private institutions are available at the Chaffey College Transfer Center.

Chaffey College recognizes course equivalency for a limited number of AP tests as indicated under "Advanced Placement (AP) Examinations". Transfer students are reminded that the decision to determine course equivalency is the responsibility of the transfer institution regardless of Chaffey College recognition. Students should consult a counselor before enrolling in any course for which AP, IB or CLEP credit has been granted. Total units awarded may differ from units recognized in a GE category.

Students who would like to use an external examination to meet a prerequisite or receive recognition of course equivalency may file a Prerequisite/Corequisite Validation form to be evaluated by the discipline faculty. Consult with a counselor to determine if equivalency has already been established.

### Advanced Placement (AP) Examinations

The General Education AP Examination Table on pages 21-22 provides the title of the AP Examination, minimum required score of "3", the area in which the AP examination is used in general education requirements for Chaffey College, the CSU-GE Breadth and IGETC, and the number of units awarded for each GE area.

At the time of printing, the listed AP examinations are equated with courses at Chaffey College. This equation is internal to Chaffey College only and does not extend to transfer institutions.

### International Baccalaureate (IB)

The International Baccalaureate Organization awards either a diploma or a certificate for individual IB exams. Students who receive IB certificates with a score of 5, 6, or 7 on higher level exams may earn unit credit towards Chaffey College general education, CSU-GE Breadth and IGETC areas. Chaffey College and the CSU recognize some scores of 4 in general education categories.

The International Baccalaureate (IB) Table on page 23 provides the IB examination title, minimum score for Chaffey/CSU and IGETC, 3 semester units awarded for Chaffey, CSU and IGETC general education areas. There are no standard equated courses.

## CHAFFEY COLLEGE GE/CSU-GE/IGETC CREDIT FOR ADVANCED PLACEMENT (AP) TESTS

Students may earn credit for College Entrance Examination Board (CEEB) Advanced Placement (AP) Tests with scores of 3, 4, or 5. AP credit can be used to meet IGETC, CSU-GE and Chaffey College general education (GE) requirements. Course credit and units granted at Chaffey College may differ from course credit and units granted by a transfer institution.

<b>AP EXAM</b> AP Score: 3, 4 or 5	<b>CHAFFEY COLLEGE - GE</b>	<b>UNITS EARNED</b>	<b>CSU-GE</b>	<b>IGETC</b>
Art History	3 semester units toward Humanities: Art	6 semester units	Area C1 or C2 3 semester units	Area 3A or 3B
Biology	4 semester units toward Natural Science	6 semester units	Area B2 and B3 4 semester units	Area 5B with lab 4 semester units
Calculus AB <sup>1</sup>	3 semester units toward Language and Rationality; Math Competency	3 semester units	Area B4 3 semester units	Area 2A
Calculus BC <sup>1</sup> /AB Subscore	3 semester units toward Language and Rationality; Math Competency	6 semester units	Area B4 3 semester units	Area 2A
Chemistry	4 semester units toward Natural Science	6 semester units	Areas B1 and B3 4 semester units	Area 5A with lab 4 semester units
Chinese Language and Culture	3 semester units toward Humanities	6 semester units	Area C2 3 semester units	Area 3B and 6A
Computer Science A <sup>2</sup>	N/A	3 semester units	N/A	N/A
Computer Science AB <sup>2</sup>	N/A	6 semester units	N/A	N/A
English - Language & Composition	3 semester units toward Language and Rationality	6 semester units	Area A2 3 semester units	Area 1A
English - Literature & Composition	3 semester units toward Language and Rationality or Humanities	6 semester units	Area A2 and C2 6 semester units	Area 1A or 3B
European History	3 semester units toward Social/Behavioral Sciences	6 semester units	Area C2 or D6 3 semester units	Area 3B or 4F
Environmental Science	4 semester units toward Natural Sciences	4 semester units	Area B1 and B3 4 semester units	Area 5A with lab 3 semester units
French Language	3 semester units toward Humanities	6 semester units	Area C2 3 semester units	Area 3B and 6A
French Literature	3 semester units toward Humanities	6 semester units	Area C2 (Removed F09) 3 semester units	Area 3B and 6A
Government & Politics - Comparative	3 semester units toward Social/Behavioral Sciences	3 semester units	Area D8 3 semester units	Area 4H

<sup>1</sup>AP Calculus Exam Limitations: Only one exam may be used for transfer/unit credit.

<sup>2</sup>AP Computer Science Exam limitations: Only one exam applies to transfer/unit credit.



## CHAFFEY COLLEGE GE/CSU-GE/IGETC CREDIT FOR ADVANCED PLACEMENT (AP) TESTS

Students may earn credit for College Entrance Examination Board (CEEB) Advanced Placement (AP) Tests with scores of 3, 4, or 5. AP credit can be used to meet IGETC, CSU-GE and Chaffey College general education (GE) requirements. Course credit and units granted at Chaffey College may differ from course credit and units granted by a transfer institution.

<b>AP EXAM</b> AP Score: 3, 4 or 5	<b>CHAFFEY COLLEGE - GE</b>	<b>UNITS EARNED</b>	<b>CSU-GE</b>	<b>IGETC</b>
Human Geography	3 semester units toward Social/Behavioral Sciences	3 semester units	Area D5 3 semester units	Area 4E
Italian Language & Culture	3 semester units toward Humanities	6 semester units	Area C2 (Removed F09) 3 semester units	Area 3B and 6A
Japanese Language & Culture	3 semester units toward Humanities	6 semester units	Area C2 3 semester units	Area 3B and 6A
Latin - Literature	3 semester units toward Humanities	6 semester units	Area C2 (Removed F09) 3 semester units	Area 3B and 6A
Latin - Vergil	3 semester units toward Humanities	3 semester units	Area C2 3 semester units	Area 3B and 6A
Macroeconomics	3 semester units toward Social/Behavioral Sciences	3 semester units	Area D2 3 semester units	Area 4B
Microeconomics	3 semester units toward Social/Behavioral Sciences	3 semester units	Area D2 3 semester units	Area 4B
Physics B <sup>3</sup>	4 semester units toward Natural Sciences	6 semester units*	Areas B1 and B3 4 semester units	Area 5A with lab 4 semester units
Physics C – Electricity/Magnetism <sup>3</sup>	4 semester units toward Natural Science	4 semester units*	Areas B1 and B3 4 semester units	Area 5A with lab 3 semester units
Physics C - Mechanics <sup>3</sup>	4 semester units toward Natural Science	4 semester units*	Area B1 and B3 4 semester units*	Area 5A with lab 3 semester units
Psychology	3 semester units toward Social/Behavioral Sciences	3 semester units	Area D9 3 semester units	Area 4I
Spanish Language	3 semester units toward Humanities	6 semester units	Area C2 3 semester units	Area 3B and 6A
Spanish Literature	3 semester units toward Humanities	6 semester units	Area C2 3 semester units	Area 3B and 6A
Statistics	3 semester units toward Language and Rationality; Math Competency	3 semester units	Area B4 3 semester units	Area 2
Studio Art – 2D	N/A	3 semester units	N/A	N/A
Studio Art – 3D	N/A	3 semester units	N/A	N/A
Studio Art – Drawing	N/A	3 semester units	N/A	N/A
U.S. Government and Politics	3 semester units toward Social/Behavioral Sciences	3 semester units	Area D8 + US-2 3 semester units	Area 4H
U.S. History	3 semester units toward Social/Behavioral Sciences or Humanities	6 semester units	(Area C2 or D6) + US-1 3 semester units	Area 3B or 4F
World History	3 semester units toward Social/Behavioral Sciences or Humanities	6 semester units	Area C2 or D6 3 semester units	Area 3B or 4F

<sup>3</sup>AP Physics Exam Limitations: Maximum 4 semester units toward GE and 6 semester units toward transfer/unit credit.

References: CSU-GE: CSU Office of the Chancellor, Memorandum 5/10/10, Code: AA-2010-09; IGETC: IGETC Standards V 1.2

## CHAFFEY COLLEGE GENERAL EDUCATION/CSU-GE/IGETC CREDIT FOR IB TESTS

Students may earn credit for International Baccalaureate (IB) tests. IB credit can be used to meet CSU-GE, IGETC and A.A. general education requirements (GE). Minimum test scores may be different for CSU-GE and IGETC. Chaffey accepts the IB test score and awards unit credit in accordance with the CSU. Students must have the College Board send IB exam results to the Admissions Office for use on GE patterns. **Course credit and units granted at Chaffey College may differ from course credit and units granted by another college or transfer institution.**

EXAM	Minimum IB SCORE Chaffey/CSU-GE	Minimum IB SCORE IGETC	CCC units awarded	AA (GE)		Semester Credits Toward CSU-GE Breadth Certification	CSU American Institutions and/or GE Breadth Area	IGETC Area
				CHAFFEY COLLEGE	CHAFFEY COLLEGE			
Biology HL	5	5	6 semester	N/A	No lab credit	3 semester units	B2	Area 5B (without lab)
Chemistry HL	5	5	6 semester	N/A	No lab credit	3 semester units	B1	Area 5A (without lab)
Economics HL	5	5	6 semester	3 units toward Social/ Behavioral Sciences		3 semester units	D2	Area 4B
Geography HL	5	5	6 semester	3 units toward Social/ Behavioral Sciences		3 semester units	D5	Area 4E
History (any region) HL	5	5	6 semester	3 units toward Social/ Behavioral Sciences		3 semester units	C2 or D6	Area 3B or 4F
Language A1 <sup>1</sup> (any language) HL	4	5	6 semester	3 units toward Humanities		3 semester units	C2	Area 3B (and 6A)
Language A2 <sup>1</sup> (any language) HL	4	5	6 semester	3 units toward Humanities		3 semester units	C2	Area 3B (and 6A)
Language B (any language) HL	4	5	6 semester	3 units toward Humanities		3 semester units	N/A	6A
Mathematics HL	4	5	6 semester	3 units toward Language and Rationality/Math Competency		3 semester units	B4	Area 2A
Physics HL	5	5	6 semester	N/A	no lab credit	3 semester units	B1	Area 5A (without lab)
Psychology HL	5	5	3 semester	3 units toward Social/ Behavioral Sciences		3 semester units	D9	Area 4I
Theatre HL	4	5	6 semester	3 units toward Humanities: Arts		3 semester units	C1	Area 3A

CHAFFEY COLLEGE GE: This chart represents IB test scores that can be applied to clear general education areas. This chart does not represent course-to-course articulation. Chaffey course credit may be granted at the discretion of the Chaffey College discipline faculty. CSU-GE: The IB examinations may be incorporated into the certification of CSU General Education-Breadth requirements by any certifying institution. All CSU campuses will accept the minimum units shown and apply them toward fulfillment of the designated General Education-Breadth area if the examination is included as part of a full or subject-area certification. Code: AA-2010-09 CSU System wide Credit for External Examinations. 5/10/2010  
IGETC: IB exams must be used in area indicated regardless of where the certifying CCC's discipline is located. IGETC Standards V 1.2, 7.0 Credit by External Exams. 6/9/10

<sup>1</sup>Language (any language) A-HL or B-HL are recognized in IGETC Area 3B. IGETC recognizes any language EXCEPT English to clear LOTE, 6A.

## CHAFFEY COLLEGE GENERAL EDUCATION / CSU-GE CREDIT FOR CLEP TESTS

Students may earn credit for College-Level Examination Program (CLEP) tests. CLEP credit can be used to meet CSU GE and Chaffey College A.A. general education (GE). UC does not award units for CLEP credit. Students must have the College Board send CLEP results to the Admissions Office for use on the A.A. or CSU-GE patterns. **Course credit and units granted at Chaffey College may differ from course credit and units granted by another college or transfer institution.**

EXAM	AA (GE) CHAFFEY COLLEGE	Minimum CLEP SCORE	Minimum Semester Credits Earned	Semester Credits Toward GE Breadth Certification	CSU American Institutions and/or GE Breadth Area
CLEP American Government	3 units toward Social/Behavioral sciences.	50	3 semester units	3 semester units	D8
CLEP American Literature	3 units toward Humanities	50	3 semester units	3 semester units	C2
CLEP Analyzing and Interpreting Literature	3 units toward Humanities	50	3 semester units	3 semester units	C2
CLEP Biology	N/A No lab credit	50	3 semester units	3 semester units	B2
CLEP Calculus	3 units toward Language and Rationality; Math Competency	50	3 semester units	3 semester units	B4
CLEP Chemistry	N/A No lab credit	50	3 semester units	3 semester units	B1
CLEP College Algebra	3 units toward Language and Rationality; Math Competency	50	3 semester units	3 semester units	B4
CLEP College Algebra - Trigonometry	3 units toward Language and Rationality; Math Competency	50	3 semester units	3 semester units	B4
CLEP College Mathematics	N/A	50	0	0	N/A
CLEP English Composition (no essay)	N/A	50	0	0	N/A
CLEP English Composition with Essay	N/A	50	0	0	N/A
CLEP English Literature	3 units toward Humanities	50	3 semester units	3 semester units	C2
CLEP Financial Accounting	N/A	50	3 semester units	0	N/A
CLEP French* Level I	N/A	50	6 semester units	0	N/A
CLEP French* Level II	3 units toward Humanities	59	12 semester units	3 semester units	C2
CLEP Freshman College Composition	N/A	50	0	0	N/A
CLEP German* Level I	N/A	50	6 semester units	0	N/A
CLEP German* Level II	3 units toward Humanities	60	12 semester units	3 semester units	C2

## CHAFFEY COLLEGE GENERAL EDUCATION / CSU-GE CREDIT FOR CLEP TESTS

Students may earn credit for College-Level Examination Program (CLEP) Tests. CLEP credit can be used to meet CSU GE and Chaffey College A.A. general education (GE). **UC does not award units for CLEP credit.** Students must have the College Board send CLEP results to the Admissions Office for use on the A.A. or CSU-GE patterns. **Course credit and units granted at Chaffey College may differ from course credit and units granted by another college or transfer institution.**

EXAM	AA (GE) CHAFFEY COLLEGE	Minimum CLEP SCORE	Minimum Semester Credits Earned	Semester Credits Toward GE Breadth Certification	CSU American Institutions and/or GE Breadth Area
CLEP History, United States I	3 units toward Social/Behavioral sciences.	50	3 semester units	3 semester units	D6 + US 1
CLEP History, United States II	3 units toward Social/Behavioral sciences	50	3 semester units	3 semester units	D6 + US 1
CLEP Human Growth and Development	3 units toward Social/Behavioral sciences.	50	3 semester units	3 semester units	E
CLEP Humanities	3 units toward Humanities	50	3 semester units	3 semester units	C2
CLEP Information Systems and Computer Applications	3 units toward Language and Rationality	50	3 semester units	0	N/A
CLEP Introduction to Educational Psychology	N/A	50	3 semester units	0	N/A
CLEP Introductory Business Law	N/A	50	3 semester units	0	N/A
CLEP Introductory Psychology	3 units toward Social/Behavioral sciences.	50	3 semester units	3 semester units	D9
CLEP Introductory Sociology	3 units toward Social/Behavioral sciences.	50	3 semester units	3 semester units	D0
CLEP Natural Sciences	N/A No lab credit	50	3 semester units	3 semester units	B1 or B2
CLEP Pre-Calculus	3 units toward Math Competency	50	3 semester units	3 semester units	B4
CLEP Principles of Accounting	N/A	50	3 semester units	0	N/A
CLEP Principles of Macroeconomics	3 units toward Social Behavioral sciences.	50	3 semester units	3 semester units	D2
CLEP Principles of Management	N/A	50	3 semester units	0	N/A
CLEP Principles of Marketing	N/A	50	3 semester units	0	N/A
CLEP Principles of Microeconomics	3 units toward Social/Behavioral sciences.	50	3 semester units	3 semester units	D2

## CHAFFEY COLLEGE GENERAL EDUCATION / CSU-GE CREDIT FOR CLEP TESTS

Students may earn credit for College-Level Examination Program (CLEP) Tests. CLEP credit can be used to meet CSU GE and Chaffey College A.A. general education (GE). **UC does not award units for CLEP credit.** Students must have the College Board send CLEP results to the Admissions Office for use on the A.A. or CSU-GE patterns. **Course credit and units granted at Chaffey College may differ from course credit and units granted by another college or transfer institution.**

EXAM	AA (GE) CHAFFEY COLLEGE	Minimum CLEP SCORE	Minimum Semester Credits Earned	Semester Credits Toward GE Breadth Certification	CSU American Institutions and/or GE Breadth Area
CLEP Social Sciences and History	N/A	50	0	0	N/A
CLEP Spanish* Level I	N/A	50	6 semester units	0	N/A
CLEP Spanish* Level II	3 units toward Humanities	63	12 semester units	3 semester units	C2
CLEP Trigonometry	3 units toward Language and Rationality; Math Competency	50	3 semester units	3 semester units	B4
CLEP Western Civilization I	3 units toward Humanities or Social/Behavioral Sciences	50	3 semester units	3 semester units	C2 or D6
CLEP Western Civilization II	3 units toward Social/Behavioral sciences.	50	3 semester units	3 semester units	D6

\*If a student passes more than one CLEP test in the same language other than English, then only one examination may be applied to the baccalaureate.

CHAFFEY COLLEGE GE: This chart represents CLEP test scores that can be applied to clear general education areas. There is no course-to-course articulation, no course equivalency granted based on CLEP or AP test scores. Chaffey course credit may be granted at the discretion of the Chaffey College discipline faculty.

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

Reference: CSU Office of the Chancellor, Memorandum: Systemwide Credit for External Examinations Code: AA-2010-09 5/10/2010



### College Level Examination Program (CLEP)

Students who successfully complete CLEP examinations are awarded units by Chaffey College and the California State University. The University of California does not award credit for CLEP examinations. CLEP credit awarded can be applied to the Chaffey College general education and CSU-GE breadth areas. The College Level Examination Program (CLEP) Table on pages 24-26 indicates the CLEP examination, minimum CLEP score (varies between 50 and 63) and 3 semester units awarded for Chaffey General Education categories and CSU-GE breadth areas.

### DANTES/DSST

The military's Defense Activity for Non-Traditional Education Support (DANTES) provides a Credit by Exam Program that includes Dantes Subject Standardized Test (DSST) examinations. Recognition of DSST examinations is determined by each California Community College and CSU campus. The University of California does not award credit for DSST examinations.

Chaffey College will review DSST examinations by student petition. The decision to award credit is based on the following factors: ACE recommendation as a baccalaureate level course and minimum score, and faculty review. When approved, 3 units of elective credit will be granted. Discipline faculty will determine if a DSST examination can be substituted in lieu of a specific course for the Associate Degree general education area, major, certificate or prerequisite. DSST examinations cannot be used for CSUGE and/or IGETC certification.

## CREDIT FOR TRANSFER WORK

### GRANTING OF CREDIT

Credit for college-level courses completed at other accredited education institutions will be evaluated for content and quality upon receipt of an official transcript in the Admissions and Records Office. Full unit credit normally will be granted. Further information regarding the following may be obtained from the Admissions and Records Office:

1. Any University of California
2. Any California State University
3. Other California community colleges
4. United States Armed Forces Institute (USAFI)
5. University of California Extension
6. Out-of-state colleges and universities
7. Nursing schools
8. Foreign colleges and universities (see page 17)
9. Correspondence courses
10. Military experience
11. Private colleges

### OFFICIAL EVALUATION OF CREDIT COMPLETED AT OTHER SCHOOLS

Students who have completed course work at other institutions and wish to obtain a degree or certificate from Chaffey College or transfer to a CSU or UC, may request an official evaluation through the Counseling Department. The official evaluation will be completed once all official transcripts are received. Note: Chaffey College will only accept units from colleges/universities from Regional Institutional Accrediting Organizations. For specific information, please contact the Admissions and Records Office.

### AUDITING

Pursuant to Education Code 76370, it is the policy of the district to provide students who are otherwise qualified to enroll in credit courses an opportunity to audit specific credit courses. An auditing fee of \$15.00 per unit is charged. Auditing may be requested once the semester has begun. Students cannot elect to audit after the last day to drop with a "W". Not all classes are auditable and there are specific requirements that must be met in order to audit a course. Additional information is available from the Admissions and Records Office.

## PROGRAM CHANGES

### ADDS

Add Codes are required to register for any open or closed class beginning the first day of instruction for each semester or summer term. The following students must register in person in the Admissions and Records Office:

- High school students
- Students with special petitions or co-requisite waivers
- Students with financial or other restrictions
- Students who are auditing

The late registration period is published in the schedule of classes. Classes can no longer be added after the late registration deadline has passed. Open entry/open exit classes may be added up to the 14th week of the fall/spring term.

### DROPS OR WITHDRAWAL

Drops or withdrawals must be done online via the MyChaffey portal within published deadlines. A student may drop or withdraw, or be dropped by an instructor, only before 61% completion of a class. No Class may be dropped/withdrawn after 61% of the class has completed, and the instructor must issue a grade.

A student who drops a class or is dropped by an instructor on or prior to 22% of the course or the fourth week (whichever is less), will receive no entry on the student's permanent record for that class. However, the student is still responsible for payment of fees.

## GRADES AND GRADE POINT AVERAGES

The cumulative grade point average (GPA) is computed by dividing the total number of units a student has attempted into the total number of grade points the student has earned:

$$\frac{\text{Total grade points earned}}{\text{Total units attempted}} = \text{Grade Point Average (GPA)}$$

Attempted	Completed	Grade	Multiply	Grade Points
5 Units	5 Units	A+/A (4 points)	5 x 4 =	20.0
		A- (3.7 points)	5 x 3.7 =	18.5
4 Units	4 Units	B+ (3.3 points)	4 x 3.3 =	13.2
		B (3 points)	4 x 3 =	12.0
		B- (2.7 points)	4 x 2.7 =	10.8
3 Units	3 Units	C+ (2.3 points)	3 x 2.3 =	6.9
		C (2 points)	3 x 2 =	6.0
2 Units	2 Units	D+ (1.3 points)	2 x 1.3 =	2.6
		D (1 point)	2 x 1 =	2.0
1 Unit	1 Unit	D- (.7 points)	2 x .7 =	1.4
		F (0 points)	0 x 0 =	0.0

**Example:**  $\frac{40 \text{ grade points earned}}{15 \text{ units attempted}} = 2.66 \text{ GPA}$

Grades earned in non-degree credit courses (numbered 500-599) are not included in the students' degree applicable grade point average.

# MEANING OF GRADE SYMBOLS

Grades are based upon the quality of a student's work in credit classes within the framework of the college's philosophy, academic standards, and state regulations.

*Grades, grade points awarded, and symbols used by Chaffey College are as follows:*

Grade	Grade Points	Definition
A+, A	4.00	Excellent
A-	3.70	Excellent
B+	3.30	Good
B	3.00	Good
B-	2.70	Good
C+	2.30	Satisfactory
C	2.00	Satisfactory
D+	1.30	Less than satisfactory
D	1.00	Less than satisfactory
D-	0.70	Less than satisfactory
F	0	Failing
FW	0	Student has both ceased participating in the course some time after the last day to officially withdraw from the course without having achieved a final passing grade, and the student has not received district authorization to withdraw from the course under extenuating circumstances.
CR	N/A	Credit. At least satisfactory (equal to C or better). CR grades are not used in calculating GPA. <i>(Only assigned for courses with CR/NC designation and credit by exam.)</i>
*P	N/A	Passing; At least satisfactory (equal to C or better). P grades are not used in calculating GPA. <i>(Only assigned for course with P/NP designation and credit by exam)</i>
NC	N/A	No credit. Student did not fulfill academic requirements of course. NC grades are not used in calculating GPA. <i>(Only assigned for courses with CR/NC designation.)</i>
*NP	N/A	No Pass; Less than satisfactory or failing. <i>(Only assigned for course with P/NP designation)</i>
W	N/A	Withdrawal. Assigned for students who officially withdraw from a class after 22% and before 61% of the course has elapsed. "W" grades are not used in calculating GPA, but are used as factors in probation and dismissal procedures.
I	N/A	Incomplete academic work due to unforeseeable emergency and justifiable reason at the end of the term. Students do not re-enroll in the class but make arrangements with the instructor to complete coursework and receive a final grade. Coursework must be completed within one year or the I grade will default to an alternate grade indicated by the instructor (usually substandard). I grades are not used in calculating GPA or units attempted.
IP	N/A	In progress. Grade awaits completion of course work which extends beyond the end of the term. Students must re-enroll in the class the following semester. The IP may be assigned only one time for each class. Coursework must be completed the following semester or the IP grade will default to an alternate grade indicated by the instructor (usually substandard). IP grades are not used in calculating GPA.
RD	N/A	Report delayed. Grade can only be assigned by the registrar when there is a delay in reporting a student's grade. It is a temporary symbol, replaced by a permanent symbol as soon as the official grade is received from the instructor and therefore is not used in calculating GPA.
MW	N/A	Military withdrawal. Students who receive military orders compelling withdrawal from classes may be permitted to withdraw at any time during a term with no adverse impact on academic records or enrollment status. Upon verification of such orders, the MW symbol shall be assigned, and upon request, enrollment fees will be refunded.

\*Chaffey College began using the P/NP (Pass/No Pass) grading symbol in Fall 2008.

A student who drops a class or is dropped by an instructor after 22% of the course, and on or before 61% of the course, will receive a W grade for that class.

Students may be dropped for lack of attendance or for “good cause” as defined in the Education Code, Article 3, Section 76033.

STUDENTS SHOULD NOT RELY ON INSTRUCTORS TO DROP OR WITHDRAW THEM FROM CLASSES. Failure to officially drop or withdraw by the drop deadline may result in the assignment of an F (Failing) or FW (Unofficial Withdrawal) grade. Drops or withdrawals must be processed online or in person in the Admissions and Records Office, and may not be requested by mail, email, or over the phone.

## GRADING

### FINAL GRADES

Grades given for any course are determined by the instructor, and in the absence of mistake, fraud, bad faith, error, or incompetency, are final. The student has two years following the semester in which the grade was recorded to request a change of grade. After the two-year limit, the grade is no longer subject to change. Requests to change a grade should be directed to the instructor. To change an F to W, or to request a removal of a W, a petition must be filed through the Admissions and Records Office.

If a grade has been incorrectly entered on a student's permanent record during computer services procedures, the error will be corrected.

Withdrew/Unofficially/Withdrew Passing (W/U/WP) grades were authorized by the catalog from the 1939-40 school year through the 1969-70 school year. These grades will be changed to W (Withdrew) on the student's permanent record prior to the release of the transcript. No grade point average computation penalty is associated with the W grade.

### PASS/NO PASS GRADING

Courses offered on a Pass/No Pass only basis and courses where Pass/No Pass grading is an option are clearly identified in the college catalog and schedule of classes. In courses with a letter grade or Pass/No Pass option, it is the student's responsibility to request the Pass/No Pass option through an application process. Students who elect this option must pick up the appropriate application forms from the Admissions and Records Office. A student may reverse his/her enrollment from Pass/No Pass status to receive an evaluative grade provided the reversal is completed prior to the deadline to add classes for the

section number in question. See the schedules of classes for deadline information. Students may enroll in a maximum of eight optional Pass/No Pass units per semester; however, courses offered only on a Pass/No Pass basis are exempt from the eight unit maximum. A maximum of 16 units of credit for optional Pass/No Pass courses may apply toward graduation requirements; this does not apply to courses offered only on a Pass/No Pass basis.

### IMPORTANT NOTICE TO TRANSFER STUDENTS

Transfer institutions may consider No Pass grades to be equivalent to “F” grades. Additionally, they may not accept course work for which a Pass grade has been issued. Students planning to transfer to a four-year institution should review the Pass/No Pass acceptance policy of the transfer institution before applying for the Pass/No Pass option.

## COURSE REPETITION

### COURSE REPETITION IN A NON-REPEATABLE COURSE

1. Students who received a satisfactory grade (“A”, “B”, “C”, “CR”, or “P”) may not normally repeat the course. Exceptions exist for significant lapse of time, extenuating circumstances, and legally-mandated training requirements as a condition of continued paid or volunteer employment or changes in industry or licensing standards (see exceptions below for details). Such exceptions require a petition, available from the Admissions and Records Office.

2. Students who have received an incomplete grade (“I”) may not repeat the course. Required coursework must be completed within one year, or the “I” grade will default to an alternate grade indicated by the instructor (usually substandard).

3. Students who have received an In-Progress grade (“IP”) must repeat the course by enrolling in it in the next subsequent term (excluding summer). Coursework must be completed in that semester or the “IP” grade will default to an alternate grade indicated by the instructor (usually substandard). “IP” grades are issued for open-entry classes that extend passed the end of the term or team-sports that have seasons that overlap semesters.

4. Students who have received an unsatisfactory grade (“D”, “F”, “FW”, “NC”, or “NP”) or have withdrawn from the course (“W”) may repeat the course once. If unsuccessful in the second attempt, the student must file a petition to be considered for a third attempt at the course. Petitions are available in the Admissions and Records Office. The academic dean

over the subject area being petitioned evaluates and approves/denies each petition on a case-by-case basis.

5. Students who have withdrawn for verified military service (“MW”) may repeat course(s) from which they have withdrawn. The “MW” grade does not affect GPA, nor does it count toward the permitted number of repetitions.

### COURSE REPETITION IN A REPEATABLE COURSE

Only courses involving Intercollegiate Academic or Athletic competition are repeatable. (Title 5, section 55041) These courses are identified as repeatable in their description and may be taken a maximum of four times (repeated three times).

1. All attempts at a repeatable course count in the limitation on repeats, including any that result in an unsatisfactory grade (“D”, “F”, “FW”, “NC”, and “NP”) or a withdrawal annotation (“W”) on the student's permanent record.

2. When a repeatable course is taken and a substandard grade (“D”, “F”, “FW”, “NC”, and “NP”) earned, a student may elect to have the satisfactory grade earned in the first subsequent repeat of the course used to alleviate the substandard grade. Forms for this election are available in the Admissions and Records Office.

### EFFECT OF COURSE REPETITION FOR SUBSTANDARD GRADE ON PERMANENT RECORD

To ensure a true and complete academic history, the course identification, title, units attempted and earned, and substandard grade(s) are not removed but are flagged with an “R” coding on the student's permanent record. The “R” coded grade and grade points are then disregarded in the computation of the student's grade point average.

### EXCEPTIONS TO REPETITION RESTRICTIONS

**Significant Lapse of Time:** A student may petition to repeat a course that is not designated as repeatable and in which he or she has received a satisfactory grade (“A”, “B”, “C”, “CR”, or “P”) when that student's level of competency in the course material has diminished over a period of time of no less than 36 months and the district has established a recency prerequisite for a course or program or another institution of higher education to which the student seeks to transfer has established a recency requirement which the student will not be able to satisfy without repeating the course in question. Supporting documentation is required. If approved, the grade from the subsequent attempt will be calculated in the student's GPA.

**Extenuating circumstance:** A student may petition to repeat a course in which the previous grade is, at least in part, the result of extenuating circumstances (verified cases of accidents, illness, or other circumstances beyond the control of the student). Supporting documentation is required.

**Legally Mandated requirement:** A student may petition to repeat a course in which he or she earned a satisfactory grade as a result of significant changes in industry or licensing standards such that repetition of the course is necessary for employment or licensure. Each repeat under this designation is considered an official repeat, therefore units and grade points earned will be used in calculations of units earned and grade point averages. Supporting documentation is required.

### VETERANS

The college's course repetition policy may be different from that of the Veterans Administration. Students receiving Veterans' educational benefits should check with the School Certifying Official in the Veteran's Resource Center before repeating any course.

## PROBATION AND DISMISSAL

### ACADEMIC PROBATION

A student who has attempted at least 12 semester units as shown by the official academic record shall be placed on academic probation if the student has earned a cumulative grade point average below 2.00 in all units.

### PROGRESS PROBATION

A student who has enrolled in a total of at least 12 semester units as shown by the official academic record shall be placed on progress probation when the percentage of W, I, NC, and/or NP grades reaches or exceeds fifty percent (50%) of all units in which the student has enrolled.

Students placed on either academic or progress probation may be subject to a block from registration.

### REMOVAL FROM PROBATION

A student on academic probation for a grade point deficiency shall be removed from probation when the student's accumulated grade point average is 2.00 or higher.

A student on progress probation because of an excess of units for which W, I, NC, and/or NP grades are recorded will be removed from probation when the percentage of units in this category drops below 50%.

### APPEAL

A student who wishes to appeal probationary status may do so through the Coordinator of the Opening Doors to Excellence program at (909) 652-6201.

Students placed on academic or progress probation will be notified by mail.

### ACADEMIC DISMISSAL

A student who is on academic probation shall be subject to academic dismissal if the student earns a cumulative grade point average of less than 2.00 in all units attempted in each of three consecutive semesters, excluding summer session.

A student who has been placed on progress probation shall be subject to probation dismissal upon receipt of recorded grades of W, I, NC, or NP in 50% or more of all enrolled units during three consecutive semesters, excluding summer session.

### Note to Veterans:

Rules regarding academic probation and dismissal apply to VA students.

### REINSTATEMENT

A student who has been dismissed may apply for readmission after one semester following the date of dismissal. A student may appeal a dismissal or apply for readmission by filing a Petition for Readmission. The petition, along with instructions on how to complete the process, are mailed to students upon notification of their dismissed standing. Petitions are also available at the Opening Doors to Excellence program office in the Counseling Department on the Rancho Cucamonga Campus.

A student readmitted after academic dismissal will remain on academic probation until the student's grade point average reaches 2.00, or the percentage of units for which grades of W, I, or NC, or NP drops below 50%.

### SPECIAL PROBATION

A student readmitted on Special Probation after academic dismissal will remain on academic probation until the student's grade point average reaches 2.00 or the percentage of units for which grades of W, I, NC or NP drops below 50%. The readmitted student on Special Probation will complete a Readmission Contract for dismissed students. The contract requires that the student on Special Probation list courses to be completed in the subsequent term and agrees to pass all courses with grades of C or better and not withdraw with a grade of W. Students on a special probation contract are subject to dismissal for one or more semesters if the provisions of their contract are not satisfied. Dismissed students in violation of their special

probation contract are subject to administrative withdrawal of subsequent terms of enrollment upon verification of grades earned for the contracted term.

### MISCELLANEOUS

For the purpose of this section on academic dismissal, semesters are considered consecutive on the basis of student enrollment.

- Dismissal is defined as the denial of the opportunity to attend college to a student.
- Dismissal is for one semester, unless the student is allowed to re-enter under Special Probation.
- Dismissed students will be notified by mail and are encouraged to confer with a counselor.
- Students will be dismissed according to the following stipulations:
  - A. Students whose Fall grades subject them to academic dismissal will be notified in the Spring semester and will be dismissed for the Fall semester, and
  - B. Students whose Spring semester grades subject them to academic dismissal will be notified during the Summer and will be dismissed for the Spring semester.

In computing the grade point average, classes taken on a credit/no credit or pass/no pass basis will be disregarded, since they do not count as units attempted or toward grade points earned. Grades of W, MW, I, IP, and RD are disregarded for the same reason.

### REGULATIONS FOR DISMISSED STUDENTS

A student applying for admission to Chaffey College who is under academic dismissal from another community college, college, or university is subject to the same reinstatement policies and procedures as a student who is under academic dismissal from Chaffey College. If it is determined that the student is subject to dismissal under Chaffey College standards, the student will not be eligible for admission for a period of one semester.

### ACADEMIC RENEWAL WITHOUT COURSE REPETITION

The purpose of Academic Renewal (Title 5 - 55046) is to disregard students' previously recorded substandard academic performance, when such work does not reflect current demonstrated ability. As a consequence, Academic Renewal allows students the benefits of their current level of ability and performance and does not permanently penalize them for poor performance in the past.



## CRITERIA

Approval of the request for Academic Renewal is subject to the following criteria:

- A) A time period of at least two (2) years must have elapsed since the end of the term of substandard work to be disregarded. Only those requested courses with substandard grades of D, F, FW, NP, and NC will be disregarded.
- B) A maximum of twenty-four (24) semester units may be alleviated, within a maximum of two (2) semesters or three (3) quarters and a summer session, which need not be consecutive.
- C) Since completion of the work to be disregarded, the student's cumulative grade point average for all units completed at the time of adjustment must be one of the following:
  - 16 semester units with a minimum of 3.0 GPA
  - 20 semester units with a minimum of 2.5 GPA
  - 24 semester units with a minimum of 2.0 GPA
- D) Academic Renewal will only be granted ONCE from Chaffey College and Academic Renewal actions are irreversible.

## PROCEDURES

The following procedures are to be followed to Petition for Academic Renewal:

- 1) The student completes an Academic Renewal Petition. Forms are available in the Counseling Department.
  - a. The student makes an appointment to meet with a counselor.
  - b. The counselor will review the petition for compliance with policy and procedures.
  - c. If petitioning for an Associate degree or vocational certificate, the student must adhere to graduation/certification application deadlines as stated in the class schedule.
- 2) The student will submit the completed Academic Renewal Petition to the Admissions and Records Office for processing.
  - a. The Admissions and Records Office will notify the student of the approval or denial of the request. Notification will be sent to the email address provided by the student on the Academic Renewal Petition.

- b. If approved, the permanent academic record shall be annotated in such a manner that all work remains legible, ensuring the true and complete academic history.

## FURTHER INFORMATION REGARDING ACADEMIC RENEWAL

- A) Academic renewal granted by Chaffey College does not guarantee that other institutions will approve such action. This determination will be made by the respective transfer institution.
- B) Student's permanent records from other institutions will not be altered.





# GRADUATION REQUIREMENTS AND TRANSFER INFORMATION

## PHILOSOPHY AND CRITERIA FOR ASSOCIATE DEGREE AND GENERAL EDUCATION

The philosophy and criteria for the Associate Degree and general education should address the considerations contained in Title 5, Section 55061 and Accreditation Standard II.A.3. These include, but are not limited to:

- The programs of the District are consistent with the institutional mission, purposes, demographics and economics of its community.
- The philosophy and criteria regarding the Associate Degree references the policy of the Board of Governors that the Associate Degree symbolizes a successful student's journey through patterns of learning experiences designed to develop certain competences and insights, including:
  - integrating critical thinking skills with effective written and oral exposition and argument;
  - employing practical applications for problem solving using mathematical principles;
  - investigating various modes of scientific research and methodology;
  - developing an awareness of the role of arts in contemporary society;
  - developing a sensitivity to diversity and a respect for differences among individuals;
  - gaining perspective of various view points relative to historical developments;
  - developing ethical and moral frameworks to interpret contemporary society;
  - developing self-understanding.
- The philosophy and criteria regarding general education references the policy of the Board of Governors that general education should lead to better self-understanding, including:
  - introducing students to the variety of means through which people comprehend the modern world;
  - introducing the content and methodology of the major areas of knowledge and provides an opportunity for students to develop intellectual skills, information technology facility, affective and creative capabilities, social attitudes, and an appreciation for cultural diversity.

— The Chaffey College Faculty Senate

## P.R.I.D.E. *Faculty Values*

### **Participate in...**

- shared governance, department and school-wide activities
- fostering academic freedom
- the culture of learning and sharing ideas

### **Respect...**

- students and all employee groups at the college
- the dignity and diversity of all students
- the capacity of all students to learn, grow, and succeed

### **Inspire...**

- students to reach their goals
- students to have high academic and professional aspirations
- active learning and critical thinking
- other faculty to excellence and creativity

### **Develop...**

- a culture of success and academic rigor
- the whole student
- a safe, learning-centered environment

### **Engage in...**

- high hope and a growth mindset
- professional growth & lifelong learning
- innovative approaches to teaching

# GRADUATION REQUIREMENTS

The minimum requirements for graduation with the degree of Associate in Arts or Associate in Science are specified by the Board of Governors of the California Community Colleges and the Chaffey College Governing Board. The Associate Degree will be granted upon completion of 60 semester units of work and the fulfillment of the specific requirements listed below.

"All degree requirements including General Education must be completed with an overall grade point average of 2.0 (C) or better. In addition, all courses that count toward the Associate Degree major or area of emphasis must be satisfactorily completed with grades of A, B, C, or P." (Title 5, 55063)

## UNIT AND SUBJECT REQUIREMENTS FOR THE ASSOCIATE DEGREE

### I. GENERAL EDUCATION (minimum 18 units from the following):

Students who are qualified to be certified for the CSU General Education pattern of classes or the IGETC pattern of classes also fulfill the Associate Degree General Education for Chaffey College.

#### A. LANGUAGE AND RATIONALITY (minimum of 2 courses)

##### A1 ENGLISH COMPOSITION (one course)

English 1A

##### A2 COMMUNICATION AND ANALYTICAL THINKING (one course)

Communication Studies 2, 4, 6, 8, 72  
Computer Information Systems: Programming 1  
Computer Science 1, 2  
English 1B  
Mathematics 3, 4, 25, 31, 60, 61, 65A, 65B, 75, 81, 85, 425  
Philosophy 75, 76  
Social Science 10  
Statistics 10

#### B. NATURAL SCIENCES (one laboratory science course)

Anthropology 1 & 1L  
Astronomy 35  
Biology 1, 2, 3, 20, 22, 23 & 23L, 61, 424 & 424L  
Chemistry 7, 9, 10, 24A  
Earth Science 1 & 1L, 5 & 5L  
Geography 4 & 5  
Geology 1, 2  
Physical Science 10  
Physics 5 & 6, 20A, 30A, 44, 45

#### C. HUMANITIES (minimum 4 units)

At least two courses required, one from each of the following categories

##### C1 ARTS (one course)

Art 10, 12, 14, 15, 16, 18, 20, 44, 62A, 63, 82  
Art History 1, 3, 5, 7, 9, 11  
Broadcasting 3  
Cinema 25, 26  
Communication Studies 14  
Dance 1  
Fashion Design 20, 45  
Interior Design 11, 12  
Music 2A, 2B, 4, 5, 17, 21, 22, 26, 75, 76, 77, 78  
Photography 1, 7, 9, 10, 13  
Theatre Arts 1, 4, 5, 10, 12

##### C2 HUMANITIES (one course)

American Sign Language 1, 2, 3, 4  
Arabic 1, 2, 3, 4  
Chinese 1, 2, 3, 4, 18  
Economics 8  
English 1C, 7A, 7B, 7D, 7E, 32, 33, 68, 70A, 70B, 71, 74, 75A, 75B, 76, 77, 79, 80A, 80B, 81  
French 1, 2  
History 1, 2, 5, 6, 7, 9, 10, 12  
Humanities 5, 6, 20  
Philosophy 70, 72, 77, 78, 80, 81, 82  
Spanish 1, 2, 3, 3SS, 4, 4SS, 8, 13, 14, 16

#### D. SOCIAL AND BEHAVIORAL SCIENCES (minimum 4 units)

At least two courses required, one from each of the following categories

##### D1 AMERICAN INSTITUTIONS (one course)

Economics 1, 2, 4  
Geography 10  
History 12, 16, 17, 18, 25, 37, 50, 51, 70, 71  
Political Science 1, 2, 3, 7, 10, 21, 25, 32

##### D2 BEHAVIORAL SCIENCES (one course)

American Sign Language 18  
Anthropology 2, 3  
Child Development and Education 2, 4  
Communication Studies 12, 74, 76, 78  
Correctional Science 8  
Geography 1, 3, 11  
Gerontology 11, 18, 23  
History 4, 19  
Political Science 4  
Psychology 1, 21, 25, 41, 65  
Sociology 10, 15, 18, 25, 26

#### II. MAJOR REQUIREMENTS (minimum 18 units)

- Complete an associate degree program as described under "Programs of Study" area in the Chaffey College catalog.

#### III. ELECTIVES

(any additional units necessary to meet minimum degree unit requirement)

#### MINIMUM TOTAL UNITS REQUIRED FOR DEGREE — 60 UNITS



# GRADUATION REQUIREMENTS (CONT'D)

## BASIC SKILLS COMPETENCY REQUIREMENTS FOR GRADUATION

### I. WRITING and READING

Successful completion of the composition course English 1A.

### II. MATHEMATICS

Placement into Mathematics 25 or higher as determined by the Chaffey assessment process, or successful completion of one of the intermediate algebra or higher level math or statistics courses listed below:

Mathematics 3, 4, 25, 31, 60, 61, 65A, 65B, 75, 81, 85, 425  
Social Science 10  
Statistics 10

## OTHER REQUIREMENTS FOR GRADUATION

### I. SCHOLARSHIP REQUIREMENTS FOR GRADUATION

A minimum grade point average (GPA) of 2.00 (C average) in degree applicable units attempted.

### II. RESIDENCE REQUIREMENTS FOR GRADUATION

A minimum of 12 units must be earned at Chaffey College.

### III. APPLICATION FOR GRADUATION

Students must file a formal application for graduation in the College Counseling Center. Students may graduate at the end of any semester or Summer session. Refer to the schedule of classes for application deadline dates.

### IV. CONTINUOUS ATTENDANCE/CATALOG RIGHTS

The preceding graduation requirements apply to students during the 2015-2016 school year. Students who enrolled at Chaffey prior to Fall 2015 and who have maintained continuous attendance (attendance in at least one semester or two quarters, excluding Summer sessions, each calendar year - January 1 through December 31 - as indicated on a permanent record) at any accredited college, have the option of meeting the current requirements or those in effect at the time continuous attendance at Chaffey began. In the event that required courses have been discontinued, students may petition for course substitution by making an appointment with a counselor in the Counseling Center.



## FOUR-YEAR UNIVERSITIES AND COLLEGES

Chaffey College offers courses that parallel the first two years (lower division) at four-year colleges and universities. Because requirements vary among these institutions, students are encouraged to choose the college or university to which they plan to transfer as early in their educational career as possible. Students should concentrate on meeting admission requirements for their major and general education courses while attending Chaffey College.

Prospective transfer students are invited to visit the Transfer Center located in SSA 120 on the Rancho Campus or contact the Transfer Center representative at Chino or Fontana for more information about transfer options, details on the transfer process and assistance in filing applications. Information about specific colleges and universities can also be found on the institution's website. Additional helpful online resources include;

[www.csumentor.edu](http://www.csumentor.edu) for California State Universities

[www.universityofcalifornia.edu/admissions](http://www.universityofcalifornia.edu/admissions) for UC campuses

[www.assist.org](http://www.assist.org) for articulation/major requirements for CSU and UC

[www.californiacolleges.org](http://www.californiacolleges.org) college/major search tool

[www.aiccu.edu](http://www.aiccu.edu) for information on private/independent institutions

[www.chaffey.edu/transfer](http://www.chaffey.edu/transfer) for Transfer Center activities and resources

**Cross Enrollment** - California residents currently enrolled at a California community college may enroll in one under-graduate course per academic term at CSU or UC campus provided the student has met course prerequisites and space is available. Students are responsible for a nominal enrollment fee, books and parking. Cross enrollment does not constitute regular admission.

Eligible students must have completed one term at their home campus, have a 2.0 GPA, be enrolled in at least six units at their community college and have paid fees for the term. More information and application forms are available through the Transfer Center.



## California State University

*There are 23 CSU campuses in California. In addition to checking the university's website, students can obtain more information about CSU campuses via the Transfer Center's services and resources.*

**CSU - Bakersfield** [www.csub.edu](http://www.csub.edu)

**CSU - Channel Islands** [www.csuci.edu](http://www.csuci.edu)

**CSU - Chico** [www.csuchico.edu](http://www.csuchico.edu)

**CSU - Dominguez Hills** [www.csudh.edu](http://www.csudh.edu)

**CSU - East Bay** [www.csueastbay.edu](http://www.csueastbay.edu)

**CSU - Fresno** [www.csufresno.edu](http://www.csufresno.edu)

**CSU - Fullerton** [www.fullerton.edu](http://www.fullerton.edu)

**Humboldt State University**  
[www.humboldt.edu](http://www.humboldt.edu)

**CSU - Long Beach** [www.csulb.edu](http://www.csulb.edu)

**CSU - Los Angeles** [www.calstatela.edu](http://www.calstatela.edu)

**California Maritime Academy**  
[www.csum.edu](http://www.csum.edu)

**CSU - Monterey Bay** [www.csumb.edu](http://www.csumb.edu)

**CSU - Northridge** [www.csun.edu](http://www.csun.edu)

**California State Polytechnic University, Pomona** [www.csupomona.edu](http://www.csupomona.edu)

**CSU - Sacramento** [www.csus.edu](http://www.csus.edu)

**CSU - San Bernardino** [www.csusb.edu](http://www.csusb.edu)

**San Diego State University** [www.sdsu.edu](http://www.sdsu.edu)

**San Francisco State University**  
[www.sfsu.edu](http://www.sfsu.edu)

**San Jose State University** [www.sjsu.edu](http://www.sjsu.edu)

**California Polytechnic State University, San Luis Obispo** [www.calpoly.edu](http://www.calpoly.edu)

**CSU - San Marcos** [www.csusm.edu](http://www.csusm.edu)

**Sonoma State University** [www.sonoma.edu](http://www.sonoma.edu)

**CSU - Stanislaus** [www.csustan.edu](http://www.csustan.edu)



All the campuses of the California State University welcome applications from community college transfer students. Students who complete any college units after high school are considered transfer students. The number of units a student has completed at the time he/she enters the CSU determines the admission standards that will apply to the application. The majority of transfer students enter as upper-division transfers with 60 semester or 90 quarter units completed. Not all CSU campuses accept lower division transfers, so students who want to transfer with fewer units should check with their intended campus before applying.

Admission offices at all 23 campuses use a common set of factors to make admissions decisions. All campuses have higher standards for out-of-state and international students, some campuses have higher standards for certain majors and some highly impacted campuses have higher standards for all applicants.

### Upper Division Transfer Admission Requirements

Minimum requirements for upper division transfer include: 2.00 GPA in all transferable coursework (2.40 for non-California residents)

and 60 transferable units that must include 30 units of general education work and completion of general education courses in written communication, oral communication, critical thinking and mathematics.

For most students planning to transfer to the CSU, completing general education classes should be a priority along with major preparation courses. The CSU provides California Community College transfers with two system-wide options for fulfilling CSU lower division general education requirements: CSU General Education (GE) and the Intersegmental General Education Transfer Curriculum (IGETC). See pages 37-38 of this catalog. Within either pattern, the highest priority classes are the three courses in the English language-English composition, oral communication, and critical thinking and a college-level mathematics course. Completion of general education courses prior to transfer is usually the most efficient and cost-effective path for community college transfer students. However, students pursuing high-unit majors in science, engineering and math need to work closely with a counselor to plan their transfer courses to be sure they meet all the admission and major prep requirements and complete as much general education as possible.

### Lower Division Transfer Admission Requirements

CSU campuses admitting lower-division students will make admissions decisions based on the courses completed in high school, high school grades and test scores and any college work completed after high school. More details on lower-division transfer requirements can be found at [www.csumentor.edu](http://www.csumentor.edu).

### Courses Transferable to the California State University

Chaffey College courses numbered from 1-99 are transferable for baccalaureate degree credit at the California State University and marked **(CSU)** in the "Course Descriptions" section of this catalog.



# CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION

## CERTIFICATION COURSE PATTERN 2015-2016

Each candidate for the bachelor's degree from a CSU institution shall complete a pattern of general education courses which total a minimum of 48 semester units. Chaffey may certify a maximum of 39 semester units toward meeting this requirement; the remaining 9 semester units must be completed at the CSU at the upper-division level. **Full general education certification from Chaffey College requires a minimum of 39 units distributed as follows:**

- AREA A** 9 units required  
**AREAS B, C, & D** 9 units is required in each area  
**AREA E** 3 units required

**AREA A ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING** (Minimum 9 units)

- A1 Oral Communication** (one course)  
 Communication Studies 2, 4, 6, 8  
**A2 Written Communication** (required)  
 English 1A  
**A3 Critical Thinking** (one course)  
 Communication Studies 72  
 English 1B  
 Philosophy 75, 76

**AREA B SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING**  
 (Minimum 9 units) Choose at least one course from each category.  
 At least one of the physical science or life science courses must have a laboratory.

- B1 Physical Science**  
 Astronomy 26, 35  
 Chemistry 7, 8, 9, 10, 12\*, 24A, 24B, 70, 75A, 75B  
 Earth Science 1, 1& 1L, 5, 5 & 5L  
 Geography 4, 4 & 5, 6<sup>∞</sup>  
 Geology 1, 2  
 Physical Science 10  
 Physics 5, 5 & 6, 20A, 20B, 30A, 30B, 44\*, 45, 46, 47  
**B2 Life Science**  
 Anthropology 1, 1& 1L  
 Biology 1, 2, 3, 10, 12, 20, 22, 23, 23 & 23L, 61, 62, 63  
 Geography 6  
**B3 Laboratory Activity** This requirement is satisfied by completion of any course in B1 or B2 with a laboratory. Those courses are underlined.  
**B4 Mathematics**  
 Mathematics 3, 4, 25, 31, 60, 61, 65A, 65B, 75, 81#, 85  
 Social Science 10  
 Statistics 10

**AREA C ARTS AND HUMANITIES**  
 (Minimum 9 units) Choose at least one course from each category.

- C1 Arts**  
 Art 10, 12, 14, 16, 18, 20, 44  
 Art History 1, 3, 5, 7, 9, 11  
 Cinema 25, 26  
 Communication Studies 14  
 Dance 1  
 Fashion Design 20, 45  
 Interior Design 11, 12  
 Music 2A, 2B, 4, 5 (pending), 6 (pending), 21, 22<sup>X</sup>, 26  
 Photography 1, 10  
 Theatre Arts 1, 4, 5, 10, 12  
**C2 Humanities**  
 American Sign Language 1#, 2, 3, 4  
 Arabic 1, 2, 3, 4  
 Chinese 1, 2, 3, 4, 18

- English 1C, 32, 33, 68, 70A, 70B, 71, 74, 75A, 75B, 76, 77, 79, 80A, 80B, 81  
 French 1, 2  
 History 1, 2, 4#, 7, 12, 16#, 20, 21<sup>∞</sup>, 25, 37, 40<sup>X</sup>  
 Humanities 5, 6, 20  
 Philosophy 70, 72, 73, 77, 78, 80, 81, 82  
 Spanish 1, 2, 3, 3SS, 4, 4SS, 8, 13, 14

**AREA D SOCIAL SCIENCES**  
 (Minimum 9 units) Choose courses from at least two categories.

- D0 Child Development** 4  
 Communication Studies 12  
 Correctional Science 5<sup>∞</sup>  
 Gerontology 18  
 Sociology 10, 14, 15<sup>∞</sup>, 16\*, 18, 70  
**D1 Anthropology** 2, 3  
**D2 Economics** 1, 2, 4  
**D3 Child Development** 6  
 Communication Studies 74  
 Correctional Science 8<sup>∞</sup>  
 History 4#, 12, 16#, 19, 50, 51, 70, 71  
 Political Science 25  
 Sociology 15<sup>∞</sup>, 25  
**D4 Communication Studies** 76  
 Sociology 14  
**D5 Geography** 1, 3, 10, 11<sup>X</sup>  
**D6 Economics** 8  
 History 1, 2, 4#, 5, 6, 7, 9, 10, 12, 16, 17, 18, 20, 21<sup>∞</sup>, 37, 40<sup>X</sup>, 50, 51, 70, 71  
**D7 American Sign Language** 18  
 Communication Studies 78  
 Gerontology 11  
 History 19  
 Political Science 3<sup>+</sup>  
 Sociology 26  
**D8 Administration of Justice** 1#  
 Correctional Science 8<sup>∞</sup>  
 Political Science 1, 2, 3<sup>+</sup>, 4, 7, 10, 21<sup>+</sup>, 25, 32<sup>+</sup>  
**D9 Child Development** 2  
 Gerontology 22, 23  
 Psychology 1, 20, 21, 25, 65

**AREA E LIFELONG LEARNING AND SELF-DEVELOPMENT 1**  
 (Minimum 3 units)

- Biology 14  
 Child Development 2<sup>∞</sup>  
 Gerontology 22  
 Guidance 3  
 Kinesiology Lecture 15  
 Nutrition and Food 5, 15, 22  
 Psychology 5, 25  
 Social Science 17  
 Sociology 16

**CSU REQUIREMENT** - The State Requirement in U.S. HISTORY, CONSTITUTION AND AMERICAN IDEALS may be met by completion of History 17 or 18 or 37, and Political Science 1.

- # = Course must be completed Fall 2003 or later.  
 ∞ = Course must be completed Spring 2005 or later.  
 ∞ = Course must be completed Fall 2005 or later.  
 X = Course must be completed Spring 2006 or later.  
 • = Course must be completed Spring 2007 or later.  
 ^ = Course must be completed Fall 2010 or later.  
 ∞ = Course must be completed Fall 2011 or later.  
 + = Course must be completed Fall 2012 or later.  
 1 = Veterans may meet Area E requirements via DD-214.

**COURSES COUNT IN ONE AREA ONLY.**

# INTERSEGMENTAL GENERAL EDUCATION

## TRANSFER CURRICULUM (IGETC) 2015-2016

Completion of the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from Chaffey College to a campus in either the California State University (CSU) or University of California (UC) system without the need, after transfer, to take additional lower-division general education courses to satisfy campus general education requirements. Depending on the major/field of interest, the student may find it advantageous to take courses fulfilling either the CSU's general education requirements or those of the UC campus or college to which the student plans to transfer.

Courses used for certification must be completed with grades "C" or better (C- grades are not acceptable), and be a minimum of 3 semesters. A course can not be certified unless it was on the IGETC list during the year in which it was taken by the student. Students beginning in Fall 2015 must follow the 2015-2016 IGETC requirements.

Partial IGETC certification is allowed with a maximum of two courses missing, which have to be completed after transfer. Students need Areas 1 and 2 of the transfer curriculum completed to meet minimum transfer admission requirements. Partial certification acknowledging a deficiency in Area 1 and/or Area 2 may also indicate a student does not meet the minimum transfer requirements.

### AREA 1 ENGLISH COMMUNICATION

**Group A:** English Composition (*Required CSU/UC*)  
English 1A

**Group B:** Critical Thinking-English Composition (*Required CSU/UC*)  
English 1B

**Group C:** Oral Communication (*CSU Requirement Only - 1 course*)  
Communication Studies 2, 6, 8

### AREA 2 MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING (*Required CSU/UC - 1 course*)

Mathematics 3, 25<sup>#</sup>\*, 60\*, 61\*, 65A\*, 65B, 75, 81, 85  
Social Science 10<sup>#</sup>\*  
Statistics 10

### AREA 3 ARTS AND HUMANITIES

(*Required CSU/UC - 3 courses minimum, with at least one course from Arts and one from Humanities*)

#### A. Arts:

Art History 1, 3, 5, 7, 9, 11  
Cinema 25, 26  
Dance 1  
Music 2A, 2B, 4, 5(*pending*), 6 (*pending*), 21\*, 22<sup>X</sup>, 26\*  
Theatre Arts 1, 4, 5

#### B. Humanities:

American Sign Language 3, 4  
Arabic 3, 4  
Chinese 3, 4  
English 1C, 32, 33, 68, 70A, 70B, 71, 74#, 75A, 75B, 76, 77, 79, 80A, 80B, 81  
History 1, 2, 4#, 5, 6, 7, 9, 10, 12, 16#, 20, 25, 40<sup>X</sup>, 50, 51, 70, 71  
Humanities 5, 6, 20  
Philosophy 70, 72, 73, 77, 78, 80, 81, 82  
Spanish 3, 4, 8, 13, 14

### AREA 4 SOCIAL AND BEHAVIORAL SCIENCES

(*Required CSU/UC - 3 courses minimum, from at least two different disciplines*)

American Sign Language 18  
Anthropology 2, 3  
Child Development and Education 2\*, 4  
Communication Studies 12, 74  
Economics 1\*, 2, 4, 8  
Geography 1\*, 3, 10, 11<sup>X</sup>  
Gerontology 18\*  
History 4#, 5, 6, 7, 9, 10, 12, 16#, 17, 18, 19, 20, 37, 40<sup>X</sup>, 50, 51, 70, 71  
Political Science 1, 2, 4, 7, 10, 21<sup>+</sup>, 25, 32<sup>+</sup>  
Psychology 1, 20\*, 25\*, 65  
Sociology 10, 14, 15<sup>∞</sup>, 16\*, 18\*, 25, 26, 70

### AREA 5 PHYSICAL AND BIOLOGICAL SCIENCES

(*Required CSU/UC - 2 courses minimum, with at least one Physical Science course and one Biological Science course, one of which must include a laboratory. Lab courses are underlined.*)

#### A. Physical Sciences:

Astronomy 26\*, 35  
Chemistry 8\*, 9\*, 10\*, 12\*, 24A\*, 24B\*, 70, 75A, 75B  
Earth Science 1, 1 & 1L, 5\*, 5 & 5L\*  
Geography 4, 4 & 5, 6<sup>∞</sup>  
Geology 1, 2  
Physical Science 10  
Physics 5\*, 5 & 6\*, 20A\*, 20B\*, 30A\*, 30B\*, 44\*\*, 45\*, 46\*, 47\*

#### B. Biological Sciences:

Anthropology 1, 1 & 1L  
Biology 1\*, 2, 10\*, 12, 20, 22, 23, 23 & 23L, 61, 62, 63

### AREA 6 LANGUAGE OTHER THAN ENGLISH (*UC Requirement Only*)

Complete 2 years of the same foreign language of high school level work with a grade of C- or better, OR complete one of the following courses:

American Sign Language 2  
Arabic 2  
Chinese 2  
French 2  
Spanish 2

American Sign Language 3 or 4, or Arabic 3 or 4, or Chinese 3 or 4, or Spanish 3, 4, or 4SS may be used to validate this requirement. Other methods for verifying language competency exist. Contact counseling for information.

- # = Course must be completed Fall 2003 or later.
- ∞ = Course must be completed Spring 2005 or later.
- ° = Course must be completed Fall 2005 or later.
- X = Course must be completed Spring 2006 or later.
- \* = Course must be completed Spring 2007 or later.
- + = Course must be completed Fall 2012 or later.
- \* = Transfer credit may be limited by either UC or CSU, or both.

**COURSES MAY COUNT IN ONLY ONE AREA, EXCEPT FOR COURSES IN LANGUAGES OTHER THAN ENGLISH WHICH CAN BE COUNTED IN BOTH AREAS 3B AND 6.**

### GRADUATION REQUIREMENT IN U.S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS

(*CSU requirement only. Not part of IGETC; may be completed prior to transfer.*)

CSU requires 2 courses

**Political Science 1 and either  
History 17 or 18 or 37**

Courses used to meet this requirement may not be used to satisfy requirements for IGETC. **Please consult with a counselor for additional information.**



# UNIVERSITY OF CALIFORNIA

The University of California includes nine undergraduate campuses throughout the state and a tenth campus in San Francisco that offers graduate and professional programs in the health sciences. Students interested in learning more about the undergraduate campuses are encouraged to visit Chaffey's Transfer Center at the Rancho campus or contact the Transfer Center representative at Chino or Fontana. The Transfer Center offers a variety of services to help potential transfer students identify options, choose a transfer destination and complete required applications. Helpful information is also available online at [www.universityofcalifornia.edu/admissions](http://www.universityofcalifornia.edu/admissions) and on each campus' website.

- 1 **University of California, Davis**  
[www.ucdavis.edu](http://www.ucdavis.edu)
- 2 **University of California, Berkeley**  
[www.berkeley.edu](http://www.berkeley.edu)
- 3 **University of California, Santa Cruz**  
[www.ucsc.edu](http://www.ucsc.edu)
- 4 **University of California, Santa Barbara**  
[www.ucsb.edu](http://www.ucsb.edu)
- 5 **University of California, Los Angeles**  
[www.ucla.edu](http://www.ucla.edu)
- 6 **University of California, Riverside**  
[www.ucr.edu](http://www.ucr.edu)
- 7 **University of California, Irvine**  
[www.uci.edu](http://www.uci.edu)
- 8 **University of California, San Diego**  
[www.ucsd.edu](http://www.ucsd.edu)
- 9 **University of California, Merced**  
[www.ucmerced.edu](http://www.ucmerced.edu)

## Upper Division Transfer Requirements

Most transfer students enter UC at the junior level. This means they have completed 60 semester units, general education and most, if not all, of their lower-division major prerequisites. To be considered for admission as a junior, students must fulfill the following:

1. Complete 60 semester or 90 quarter units of transferable college credit with a GPA of at least 2.4 (2.8 for nonresidents of California).



2. Complete the following course pattern requirements, earning a grade of C or better in each course:
  - Two transferable college courses in English composition (English 1A and English 1B)
  - One transferable college course in mathematical concepts and quantitative reasoning (typically Math 25)
  - Four transferable college courses chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, physical and biological sciences. Each course must be at least 3 semester units.

Applications from prospective transfer students undergo a comprehensive review process involving specific criteria:

- Completion of a specified pattern or number of courses that meet breadth or general education requirements.

- Completion of a specified pattern or number of courses that provide continuity with upper division courses in the student's major
- GPA in all transferable courses
- Participation in academically selective honors courses or programs
- Special talents, achievements and awards in a particular field such as visual and performing arts or athletics; special skills such as demonstrated written and oral proficiency in other languages; special interests such as intensive study of other cultures; experiences that demonstrate unusual promise for leadership; or other significant experiences or achievements that demonstrate promise for contributing to the intellectual vitality of a campus.



**Transfer Admission Guarantee** - Seven UC campuses (Berkeley and Los Angeles do not participate) offer guaranteed admission to California community college students who meet specific requirements. By participating in a Transfer Admission Guarantee (TAG) program, students will receive an early review of their academic records, early admission notification and specific guidance about major preparation and general education coursework. To pursue a TAG, students should meet with a Chaffey counselor to review/update a plan to address remaining UC requirements and then complete an online TAG application. When the TAG is approved, fulfill all remaining coursework and GPA requirements in the TAG agreement and then apply for admission to UC during the appropriate filing period.

Interested students can find more information about eligibility criteria for each participating campus online under the "Transfer" heading at [www.universityofcalifornia.edu/admissions](http://www.universityofcalifornia.edu/admissions) or by contacting the Transfer Center. TAG details will also be posted on the Transfer Center's website at [www.chaffey.edu/transfer](http://www.chaffey.edu/transfer).

### Lower Division Transfer Requirements

While all UC campuses welcome a large pool of junior-level transfers, most admit only a limited number of lower-division transfers. However, it can happen. Here's how:

- Students who were eligible for admission to UC when they graduated from high school - meaning they satisfied the subject, examination and scholarship requirements or were identified by UC during their senior year as Eligible in the Local Context (ELC) and completed the subject and examination requirements in the senior year - are eligible for transfer if they have a 2.0 GPA in their transferable college coursework (2.8 GPA for non-residents).
- Students who met the scholarship requirement in high school, but did not satisfy the 15-course subject requirement, must take transferable college courses in the missing subjects, earn a C or better in each required course and have an overall 2.0 GPA in all transferable coursework to be eligible to transfer (a 2.8 GPA is required for nonresidents).

### Courses Transferable to the University of California

Chaffey College courses numbered from 1-99 are transfer-level courses; those accepted for baccalaureate degree credit at the University of California are marked (UC) in the "Course Descriptions" section of this catalog.

## PRIVATE/INDEPENDENT COLLEGES AND UNIVERSITIES OUT-OF-STATE COLLEGES AND UNIVERSITIES

Admission requirements to private and out-of-state colleges and universities vary with each institution. Specific information regarding eligibility requirements and applications procedures is generally published in the institution's catalog and on their website. Students may also visit the Transfer Center for assistance.

## CHAFFEY COLLEGE TRANSFER CENTER

Students are encouraged to utilize the resources and services available through the Transfer Center. Transfer fairs, specific contact information, individual appointments with university representatives and trips to visit local campuses will help students select a transfer campus. Students are also urged to work closely with their counselors to develop and maintain an educational plan to support their transfer goals.

The Transfer Center is located on the Rancho campus in room SSA-120; limited services are also available at Chino and Fontana. (909) 652-6233 or [www.chaffey.edu/transfer](http://www.chaffey.edu/transfer).



# PROGRAMS OF STUDY

Educational programs are “an organized sequence of courses leading to a defined objective, a degree, a certificate, a diploma, a license, or transfer to another institution of higher education (Title 5, section 55000).” Programs of study at Chaffey College are designed to provide students with certificates/licensure and/or degrees, training for a variety of career and technical fields, and/or preparation for transfer to four-year colleges. Chaffey’s currently active certificate and degree programs may be found on pages 42-43. Detailed information about each program’s constituent coursework and any additional requirements may be found on pages 44-111.



## ASSOCIATE DEGREES FOR TRANSFER

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that accepts the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major).

This degree may not be the best option for students intending to transfer to a particular CSU campus or a college or university that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

At press date, Chaffey has twenty-five (25) approved transfer degrees: Administration of Justice, Anthropology, Art History, Business Administration, Communication Studies, Computer Science, Early Childhood Education, Economics, Elementary Teacher Education, English, Geography, Geology, History, Journalism, Kinesiology, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology, Spanish, Studio Arts, and Theatre Arts. Additional transfer degree majors are being developed. Please see a counselor for more information.

### 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. Students should keep in mind that while a minimum of 2.0 is required for admission, some majors may require a higher GPA. 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 Programs of Study section of the catalog. All courses in the major must be completed with a grade of C or better. “P” (Pass) grades are not acceptable for courses in the major. (Title 5 § 55063)
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE, on page 37) OR the Intersegmental General Education Transfer Curriculum pattern (IGETC, on page 38).

## ASSOCIATE DEGREES

Chaffey offers both Associate in Arts (AA) and Associate in Science (AS) degrees. Associate in Arts degrees are two-year degrees in Liberal Studies disciplines that provide a broad exploration of a specific area of emphasis. Associate in Science degrees typically are two-year occupational degrees that prepare students for careers in technical fields. Most AA degree and many AS degrees provide a solid foundation for further academic study for students wishing to transfer. All courses in the major must be completed with a grade of A, B, C, or P or better. (Title 5 § 55063)

## CERTIFICATES

Certificate programs focus on a specific vocational topic/subject area, and are designed to provide students with knowledge and skills immediately applicable to employment. Certificate programs typically do not require or include general education type courses, and most can be completed in less than two years – sometimes within a single term. Certificates are awarded to students who have successfully completed the required sequence of courses in an occupational field. A minimum grade of “C” or “P” is required for every course required for the certificate. All certificates have been approved by the Chaffey Curriculum Committee, and are listed – along with their constituent courses – elsewhere in this catalog. Chaffey offers two types of certificates:

Certificates of Achievement (STATE-APPROVED) are certificate programs consisting of 18 or more units of degree-applicable coursework. These certificates appear by name on student’s transcripts.

Certificates of Career Preparation (LOCALLY-APPROVED) are certificate programs consisting of fewer than 18 units of degree-applicable coursework. These certificates do not appear on student’s transcripts.

# DEGREE AND CERTIFICATE PROGRAMS

These are the Associate Degree majors/areas of emphasis and Certificates currently available at Chaffey. The courses to fulfill the requirements for each listed program are detailed in the following pages. All courses used to fulfill Associate Degree majors and state- or locally-approved Certificates must be completed with a minimum grade of C. All programs are subject to change; students should consult with a counselor for further information.

PROGRAM	Transfer Degree	Associate Degree	State Approved Certificate	Locally Approved Certificate*
<b>Accounting</b>		✓	✓	
Bookkeeping				✓
Government and Not-For-Profit Organizations				✓
Paraprofessional			✓	
Financial Planning				✓
Payroll and Income Tax Preparer				✓
<b>Administration of Justice</b>	✓		✓	
<b>Anthropology</b>	✓			
<b>Art - Studio Arts</b>	✓			
Art Emphasis		✓		
Ceramics Studio Emphasis		✓		
Drawing/Painting Studio Emphasis		✓		
Intermedia Emphasis		✓		
<b>Art/Digital Media</b>				
Computer Graphic Design for Print Media Emphasis		✓	✓	
Design for Multimedia Emphasis		✓	✓	
Web Design Emphasis		✓	✓	
<b>Art/Visual Communication: Illustration</b>		✓	✓	
<b>Art History</b>	✓			
<b>Automotive Technology</b>				
Automotive Electrical Systems				✓
Engine Performance (Smog Check) Technician			✓	
Engine Rebuilding				✓
General Automotive Service Technician		✓	✓	
High Performance Engines Building & Blueprinting				✓
Master Automotive Technician		✓	✓	
<b>Aviation Maintenance Technology</b>				
Airframe		✓	✓	
Powerplant		✓	✓	
Aviation Maintenance (Airframe & Powerplant)			✓	
<b>Biology</b>		✓		
<b>Broadcasting and Cinema</b>		✓		
Motion Picture Production			✓	
On Air Radio Production				✓
Post Production Editing			✓	
Screenwriting			✓	
Television and Video Production			✓	
<b>Business Administration</b>	✓			
General Business		✓	✓	
Marketing				✓
Small Business Entrepreneur		✓		
Small Business Entrepreneur Level I				✓
<b>Business: Management</b>		✓		
Management – Level I				✓
Management – Level II			✓	

PROGRAM	Transfer Degree	Associate Degree	State Approved Certificate	Locally Approved Certificate*
Logistics Management		✓	✓	
Retail Management		✓	✓	
Supervision		✓		
Supervision Level I				✓
Supervision Level II			✓	
<b>Business: Paralegal Studies</b>			✓	
<b>Business and Office Technologies</b>				
Microsoft Excel				✓
Microsoft Office			✓	
Microsoft Word				✓
Professional Administrative Assistant		✓	✓	
Professional Office Management		✓	✓	
<b>California State University-GE (CSU-GE)</b>			✓	
<b>Chemistry</b>		✓		
<b>Child Development</b>		✓		
Early Childhood Education	✓			
<b>Chinese</b>		✓		
<b>Communication Studies</b>	✓			
<b>Computer Information Systems</b>		✓	✓	
Cisco CCNA Examination Preparation Level I				✓
Cisco CCNA Examination Preparation Level II				✓
Cisco CCNA Examination Preparation Level III				✓
Cisco CCNA Examination Preparation Level IV			✓	
Cisco CCNP Examination Preparation Level V			✓	
Cisco CCNP Examination Preparation Level VI			✓	
Cisco CCNP Examination Preparation Level VII			✓	
Cisco CCNP Examination Preparation Level VIII			✓	
Cisco CCNP Examination Preparation Level IX			✓	
Computer Game Development				✓
Computer Support Technician				✓
Network Specialist			✓	
Project Management				✓
Web Developer Level I				✓
Web Developer Level II				✓
<b>Computer Science</b>	✓			
<b>Correctional Science</b>		✓	✓	
<b>Culinary Arts</b>			✓	
<b>Dance</b>		✓		
<b>Dental Assisting</b>		✓	✓	
<b>Dietetic Service Supervisor</b>			✓	
<b>Drafting</b>				
Architectural		✓	✓	
CAD/CAM Operator				✓
Mechanical		✓	✓	
<b>Earth Science</b>		✓		

continued on next page





## ACCOUNTING

The Accounting program is designed to: (1) prepare non-transfer accounting students for entry level positions by making the accounting certificate and/or the two-year degree in accounting available to them; (2) prepare transfer accounting students with appropriate background for upper division courses; and (3) provide non-accounting majors with sufficient expertise to enable them to make intelligent use of accounting information.

### Student Learning Outcomes:

Upon the successful completion of this program, students should be able to:

Upon the successful completion of this degree, students should be able to:

1. Apply the conceptual framework of financial accounting for business reporting.
2. Apply the conceptual framework of managerial accounting.
3. Apply the conceptual framework of financial and managerial accounting to business reporting.
4. Understand the conceptual framework of financial and managerial accounting for business reporting.
5. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Science Degree:</b>		Units
[S005/04756/0502.00/52.0302]		
ACCTG 1A	Financial Accounting	4
ACCTG 1B	Managerial Accounting	4
ACCTG 70	Cost Accounting	3
	(or ACCTG 430*, Accounting for Governmental and Not-for-Profit Organizations, 4, or ACCTGFS 453*, U.S. and California Income Tax Preparation, 4, or ACCTGFS 451, Volunteer Income Tax Assistance Program I, 1 <i>and</i> ACCTGFS 452, Volunteer Income Tax Assistance Program II, 0.5)	
BUS 28A	Business Law I	3
BUSOT 63	Microsoft Office Excel - Comprehensive	3
CIS 1	Introduction to Computer Information Systems	3
STAT 10	Elementary Statistics	4
<b>Total units for the major</b>		<b>22.5-25</b>

## ACCOUNTING AND FINANCIAL PLANNING CERTIFICATE PROGRAMS

The Accounting/Financial Planning certificate programs are designed to prepare non-transfer accounting students for entry level positions and provide non-accounting majors with sufficient expertise to enable them to make intelligent use of accounting information.

### Student Learning Outcomes:

Upon the successful completion of this program, students should be able to:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate analysis and critical reflection appropriate in the field of accounting.
2. Demonstrate communication and problem solving appropriate in the field of accounting.
3. Plan and prepare for employment and career advancement in the fields of accounting, managerial accounting and tax accounting in the field of accounting.
4. Recognize the need for, and implement ethical decision-making.

### Requirements for the Accounting Certificate:

[T005/20675/0502.0/52.0302]

		Units
ACCTG 1A	Financial Accounting	4
ACCTG 1B	Managerial Accounting	4
ACCTG 70	Cost Accounting	3
	(or ACCTG 430*, Accounting for Governmental and Not-for-Profit Organizations, 4 or ACCTGFS 453*, U.S. and California Income Tax Preparation, 4 or ACCTGFS 451*, Volunteer Income Tax Assistance Program I, 1 <i>and</i> ACCTGFS 452*, Volunteer Income Tax Assistance Program II, 0.5)	
BUS 28A	Business Law I	3
BUSOT 63	Microsoft Office Excel - Comprehensive	3
CIS 1	Introduction to Computer Information Systems	3
STAT 10	Elementary Statistics	4

### Plus nine units from the following:

ACCTG 430*	Accounting for Governmental and for Not-for-Profit Organizations	4
ACCTG 435	Payroll Accounting	3
ACCTG 460	Commercial Accounting Software	3
ACCTGFS 453*	U.S. and California Income Tax Preparation (or ACCTGFS 451*, Volunteer Income Tax Assistance Program I, 1 <i>and</i> ACCTGFS 452*, Volunteer Income Tax Assistance Program II, 0.5)	4
ACCTGFS 454	Introduction to the Taxation of Corporations and Partnerships	4
CIS 68	Using the Internet	1.5

### Total units for the certificate

**31.5-34**

\*ACCTG 430 and ACCTGFS 451, 452 and 453 may not be counted twice

## Accounting for Government and Not-For-Profit Organizations

This program is intended for individuals desiring employment in government or not-for-profit organizations. Upon the successful completion of this certificate, candidates will be proficient in fund and not-for-profit accounting and possess the ability to perform basic accounting functions.

### Student Learning Outcomes:

- Upon the successful completion of this program, students should be able to:  
Upon the successful completion of this certificate, students should be able to:
1. Demonstrate analysis and critical reflection appropriate in the field of accounting.
  2. Demonstrate communication and problem solving appropriate in the field of accounting.
  3. Plan and prepare for employment and career advancement in the field of governmental accounting and not-for-profit accounting.
  4. Recognize the need for, and implement ethical decision-making.

### Requirements for the Government and Not-for-Profit Organizations Certificate (Non-transcripted):

	Units
[L008/99999/0502.00/52.0302]	
ACCTG 1A Financial Accounting	4
ACCTG 430 Accounting for Governmental and Not-For-Profit Organizations	4
ACCTG 435 Payroll Accounting	3
ACCTG 460 Commercial Accounting Software	3
<b>Total units for the certificate</b>	<b>14</b>

## Accounting Paraprofessional

(Computer Software Emphasis)

This program is designed to develop the skills and concepts necessary to obtain entry-level positions in small businesses which use computerized accounting systems.

### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Demonstrate analysis and critical reflection appropriate in the field of accounting.
  2. Demonstrate communication and problem solving appropriate in the field of accounting.
  3. Plan and prepare for employment and career advancement in the field of accounting.
  4. Recognize the need for, and implement ethical decision-making.

### Requirements for the Accounting Paraprofessional Certificate:

	Units
[L006/07370/0502.00/52.0302]	
ACCTG 1A Financial Accounting	4
ACCTG 1B Managerial Accounting	4
BUSOT 60A Microsoft Office Word - Specialist	3
BUSOT 63 Microsoft Office Excel - Comprehensive	3
BUSOT 455 Fundamentals of English for Business	3
CIS 1 Introduction to Computer Information Systems	3

### Plus six units from the following:

ACCTG 430 Accounting for Governmental and for Not-for-Profit Organizations	4
ACCTG 435 Payroll Accounting	3
ACCTG 460 Commercial Accounting Software	3
ACCTGFS 453 U.S. and California Income Tax Preparation	4

**Total units for the certificate** **26**

## Bookkeeping

This program is intended for individuals desiring to enter the accounting profession with a minimum of course requirements. Upon successful completion of this Chaffey certificate, candidates will possess the knowledge and analytical tools necessary to manage and use accounting data effectively.

### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Demonstrate analysis and critical reflection appropriate in the field of business.
  2. Demonstrate communication and problem solving appropriate in the field of business.
  3. Plan and prepare for employment and career advancement in the field of business.
  4. Recognize the need for, and implement ethical decision-making.

### Requirements for the Bookkeeping Certificate (Non-transcripted):

	Units
[E115/99999/0502.00/52.0302]	
ACCTG 435 Payroll Accounting	3
ACCTG 460 Commercial Accounting Software	3
ACCTG 480 Applied Accounting I	3
ACCTG 481 Applied Accounting II	3
BUSOT 63 Microsoft Office Excel – Comprehensive	3
<b>Total units for the certificate</b>	<b>15</b>

## Financial Planning

The Financial Planning certificate provides students with basic accounting skills combined with training in financial planning. Students completing this certificate can assist individuals and companies within the areas of budgeting, taxes, and financial planning. This certificate also serves as an excellent foundation for students wishing to take the National Association of Securities Dealers series 6 and 7 examinations.

### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Demonstrate analysis and critical reflection appropriate in the field of financial planning.
  2. Demonstrate communication and problem solving appropriate in the field of financial planning.
  3. Plan and prepare for employment and career advancement in the field of financial planning.
  4. Recognize the need for, and implement ethical decision-making.

### Requirements for the Financial Planning Certificate (Non-transcripted):

	Units
[E116/99999/0504.00/52.0803]	
ACCTGFS 440 Introduction to Financial Planning	3
ACCTGFS 442 Fundamentals of Finance and Investing	3
ACCTGFS 453 U.S. and California Income Tax Preparation	4
ACCTGFS 465 Financial Accounting for the Non-Accounting Major (or ACCTG 1A, Financial Accounting, 4)	3

### Plus three units from the following:

ACCTG 460 Commercial Accounting Software	3
ACCTGFS 450 Tax Preparation for Small Business	1.5
BUS 60 Business Ethics	3

**Total units for the certificate** **16-17**

## Payroll and Income Tax Preparer

This program is intended for individuals desiring to enter the tax preparation and/or payroll field with a minimum of course requirements. Upon successful completion of this Chaffey certificate, candidates will possess the knowledge and analytical tools necessary to use financial data effectively in preparing a variety of tax returns. Additionally, this certificate fulfills the preliminary requirements to become a Registered Tax Preparer in the state of California.

### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Demonstrate analysis and critical reflection appropriate in the field of payroll and tax preparation.
  2. Demonstrate communication and problem solving appropriate in the field of payroll and tax preparation.
  3. Plan and prepare for employment and career advancement in the field of payroll and tax preparation.
  4. Recognize the need for, and implement ethical decision-making.

### Requirements for the Payroll and Income Tax Preparer Certificate: Units (Non-transcripted)

[E117/99999/0502.10/52.1601]		
ACCTG 1A	Financial Accounting	4
ACCTG 435	Payroll Accounting	3
ACCTG 460	Commercial Accounting Software	3
ACCTGFS 453	U.S. and California Income Tax Preparation (or ACCTGFS 454, Introduction to the Taxation of Corporations and Partnerships or ACCTGFS 451, Volunteer Income Tax Assistance Program I, 1 <i>and</i> ACCTGFS 452, Volunteer Income Tax Assistance Program II, 0.5)	4
<b>Total units for the certificate</b>		<b>11.5-14</b>



## ADMINISTRATION OF JUSTICE ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Administration of Justice for Transfer degree prepares students for a variety of careers in the criminal justice system. Courses within the program acquaint students with the American Justice system, crimes' causes, the role of law enforcement, roles of administration of justice practitioners, procedural and constitutional rights of defendants, legal defenses, criminal courtroom procedures, evidence procedures, juvenile procedures, and misdemeanor and felony violations of criminal law.

The program is suited to the needs of students who will complete their education at Chaffey College with an A.S. degree, as well as those students who will complete their Chaffey A.S. degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Administration of Justice guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of public law enforcement agencies such as municipal police, probation officers, county deputy sheriffs, correctional officers, game wardens, state parks officials, and private security.

To obtain the Associate in Science in Administration of Justice for Transfer degree, students must:

- Complete all the major requirements listed below with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU-GE) or the Intersegmental General Education Transfer Curriculum (IGETC).

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. List the most common and frequently occurring crimes in California, citing the appropriate and corresponding California Penal Code sections. This will prepare them for entry-level and career positions in the CJS.
2. Identify and then analyze the basic elements of a crime, as defined by the California Penal Code or the Model Penal Code, in order to prepare them for entry-level and career positions in the CJS, and to prepare them for transfer to a four-year college or university, majoring in the Criminal Justice or related field.
3. List and explain the three primary levels of government as well as contrast and compare the levels to one another then provide examples of law enforcement agencies that operate within each respective level of government. This will prepare students to search for criminal justice-related careers in the three levels of government, and will provide them with the knowledge of the jurisdiction and authority of various agencies working within the CJS.
4. Define the three major classifications of crimes, in order to prepare them for entry-level and career positions in the CJS, and to prepare them for transfer to a four-year college or university, majoring in Criminal Justice or a related field.
5. Demonstrate skills that foster capacities of analysis, critical reflection, problem solving, communication, career development, and global and community awareness.

### Major requirements for the Associate in Science Transfer (AS-T) Degree: Units [S133/31248/2105.00/43.0107]

<b>Core (6 units)</b>		
AJ 1	Introduction to the Criminal Justice System	3
AJ 2	Concepts of Criminal Law	3

### List A - Any 2 courses (6 units)

AJ 3	Criminal Court Process	3
AJ 4	Community and the Justice System	3
AJ 5	Legal Aspects of Evidence	3
AJ 6	Juvenile Procedures	3
AJ 7	Criminal Investigation	3
AJ 9	Crime Scene Management and Forensic Evidence	3
CRSCI 1	Introduction to Corrections	3

### List B - Any 2 courses (6-7 units)

Any List A courses not used above, and/or:		
AJ 8	Criminology	3
PSYCH 1	Introduction to Psychology	3
SOC 10	Introduction to Sociology	3
STAT 10	Elementary Statistics	4

<b>Total units for the major</b>	<b>18-19</b>
<b>plus CSU General Education or IGETC Pattern</b>	<b>39-41</b>
<b>plus transfer-level course electives (as needed)</b>	<b>0-3</b>
<b>Total Units</b>	<b>60</b>

## Administration of Justice Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Identify and then analyze the basic elements of a crime, as defined by the California Penal Code, in order to prepare them for entry-level and career positions within law enforcement.
2. Explain the responsibilities of police, corrections, and the courts.
3. Explain appropriate investigative techniques and responsibilities at a crime scene to demonstrate mastery of crime scene management.
4. Explain law enforcement organizational composition to include paramilitary rank structure, methods of police deployment, and resources available to police operations.

<b>Major requirements for the Administration of Justice Certificate:</b>		Units
[L132/20737/2105.00/43.0107]		
AJ 1	Introduction to the Criminal Justice System	3
AJ 2	Concepts of Criminal Law	3
AJ 3	Criminal Court Process	3
AJ 4	Community and the Justice System	3
AJ 5	Legal Aspects of Evidence	3
AJ 6	Juvenile Procedures	3
AJ 407	California Substantive Law	3

**Plus one course from the following:**

AJ 7	Criminal Investigation	3
AJ 8	Criminology	3
AJ 9	Crime Scene Management and Forensic Evidence	3
AJ 408	Patrol Operations	3
AJ 410	Narcotics and Vice Investigation	3
AJ 412	Writing for Criminal Justice Professionals	3
AJ 413	Police Supervision, Leadership, and Management	3

**Total units for the certificate** **24**



## ANTHROPOLOGY ASSOCIATE IN ARTS FOR TRANSFER

Anthropology is an interdisciplinary area of study focusing on the study of people, ranging from the origin and biological evolution of our species, to tracing the prehistory and history of cultures, to defining group behavior in non-western and western cultures. Thus, anthropology is considered to be the most holistic of the social sciences. The goal of anthropology is to answer the question, "What is humankind?" from a biological, prehistoric, and behavioral perspective. The integrative approach to the discipline links anthropology with the life and social sciences, and has strong ties with disciplines ranging from biology and psychology to political science, history, and the arts, providing a humanistic perspective.

The Associate in Arts for Anthropology for Transfer (AA-T) degree is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Anthropology guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation for a career in the field of anthropology.

The goals and outcomes for the Anthropology major include the following:

1. Prepare students for seamless transfer to a CSU to complete an Anthropology baccalaureate degree.
2. Prepare students for advanced studies within the field of Anthropology.

To obtain the Anthropology AA-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

### **Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Understand key Anthropological concepts and develop critical thinking skills to assess anthropological concepts, and to evaluate the validity of anthropological methods, interpretations, solutions, and arguments.
2. Demonstrate an appreciation for human diversity.
3. Demonstrate an understanding of the integrative/holistic nature of Anthropology and its utility in fostering a deeper understanding of allied academic disciplines and personal identity.

<b>Major requirements for the Associate in Arts for Transfer Degree</b>		Units
[A016/32166/2202.00/45.0201]		

**Core – (10 units):**

ANTHRO 1	Introduction to Biological Anthropology	3
ANTHRO 1L	Laboratory for Biological Anthropology	1
ANTHRO 2	Introduction to Archaeology	3
ANTHRO 3	Introduction to Social and Cultural Anthropology	3

**List A – One course (4 units):**

STAT 10	Elementary Statistics (or SCSCI 10, Statistics for Social Science)	4
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**List B – One or two\* courses (4 units):**

BIOL 20	Human Anatomy	4
ESC 1	Earth Science <i>and</i>	3
ESC 1L	Earth Science Laboratory	1
GEOL 1	Physical Geology	4
PSYCH 80	Research Methods in Psychology (or SOC 80, Introduction to Research Methods in Sociology)	4

**List C – One course (3 units):**

Any List A or List B course not already used, or:		
COMSTD 74	Intercultural Communication	3
GEOG 11	Human Geography	3
MUSIC 26	World Music	3
PHIL 80	Introduction to Religion	3
SOC 10	Introduction to Sociology	3
SOC 15	Ethnic and Race Relations: U.S. and Global Perspectives	3

<b>Units for the Major</b>	<b>21</b>
<b>Units that may be double-counted</b>	<b>21</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>37-39</b>
<b>plus transfer-level course electives (as needed)</b>	<b>0-3</b>
<b>Total Units Required for Degree</b>	<b>60</b>

\* If Earth Science is selected, both ESC-1 and 1L are required.



## ART - STUDIO ARTS ASSOCIATE IN ARTS FOR TRANSFER

The Studio Arts AA-T provides a comprehensive, student-centered program that serves a diverse population. Studio and lecture courses prepare students for employment in a variety of fields related to the visual arts and design. Critical thinking and problem-solving skills are emphasized across the curriculum. Coursework requires students to examine the world from alternate cultural, ethnic, gender and personal perspectives. Professional practices, skills, and the ability to use technology to communicate are integral components of the program.

Students should consult with the intended transfer institution to determine the appropriate courses to complete at Chaffey. The program is suited to the needs of students who will complete their education at Chaffey College with an A.A. degree, as well as those students who will complete their Chaffey A.A. degree and transfer to a four-year institution to complete their bachelor's degree. Successful completion of the transfer degree in Studio Art guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in Studio Art.

The goals and outcomes for the Studio Arts major include the following:

1. Prepare students for transfer to a CSU to complete a Studio Arts baccalaureate degree.
2. The Studio Arts program strives to teach contemporary continuing education to career professionals.



To obtain the Studio Arts A.A.-T degree, students must complete the following:

1. A minimum of 26 semester units in the major with a grade of C or better while maintaining a grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
2. 60 semester CSU-transferable units following the California State University-General Education Breadth pattern (CSU-GE Breadth); OR the Intersegmental General Education Transfer (IGETC). No more than 60 semester units are required.

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Transfer to a CSU to complete a Studio Art Baccalaureate degree.
2. Possess a foundation of knowledge and skills in Studio Art.
3. Apply critical thinking skills in the creation and evaluation of the visual arts.

#### Major requirements for the Associate in Arts for Transfer Degree [A038/33239/1002.00/50.0701]

##### Required Core (14 units)

ART 10	Fundamentals of Design in Two Dimensions	4
ART 12	Fundamentals of Design in Three Dimensions	4
ART 14	Introduction to Drawing	3
ARTH 5	Survey of Western Art from Renaissance to Contemporary	3

##### List A: Select one (3 units)

ARTH 3	Survey of Western Art from Prehistory through the Middle Ages	3
ARTH 7	Arts of Africa, Oceania, and Indigenous North America	3
ARTH 9	Art of the Ancient Americas	3
ARTH 11	Survey of Asian Arts	3

##### List B: Select three (9 - 12 units)

ART 15	Color Theory	3
ART 16	Introduction to Painting	3
ART 18	Introduction to Ceramics	3
ART 20	Ceramic Sculpture (or ART 50, Introduction to Sculpture)	4
ART 30	Figure Drawing (or ART 32, Intermediate Drawing, 4)	3
ART 34	Intermediate Painting (or ART 35, Intermediate Ceramics, 3 or ART 62B, Illustration II, 3)	4
ART 63	Introduction to Graphic Design	4
ART 73	Typography and Layout	4
PHOTO 7	Introduction to Digital Photography (or PHOTO 10, Beginning Photography)	4

<b>Units for the Major</b>	<b>26-29</b>
<b>Units that may be double-counted</b>	<b>6</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>37-39</b>
<b>plus transfer-level course electives (as needed)</b>	<b>1-5</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## ART

The program provides a comprehensive, student-centered program that serves a diverse population. It prepares students for transfer to University of California, California State University, and most private art colleges in the nation. Studio and lecture courses prepare students for employment in a variety of fields related to the visual arts and design. Critical thinking and problem-solving skills are emphasized across the curriculum. Coursework requires students to examine the world from alternate cultural, ethnic, gender and personal perspectives. Professional practices, vocational skills and the ability to use technology to communicate are integral components of the program.

To transfer, students should consult with the intended transfer institution to obtain a list of appropriate courses to complete at Chaffey College. For the Associate in Arts degree, students follow the program listed for one of the following areas of emphasis.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

#### Major requirements for the Associate in Arts Degree:

<i>Core requirements:</i>		Units
ART 10	Fundamentals of Design in Two Dimensions	4
ART 12	Fundamentals of Design in Three Dimensions	4
ART 14	Introduction to Drawing	3
ART 15	Color Theory	3
ART 89*	Student Invitational Exhibition (or ART 488*, Portfolio and Presentation)	4

\* A substantial number of core and emphasis requirements should be completed prior to enrollment. Students taking ART 89 must pass faculty review of creative proposal and portfolio in November for following spring term.

#### Plus completion of one of the following emphases:

##### Art Emphasis

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate technical skills for producing art in a variety of media.
2. Create work that demonstrates an understanding of the visual elements and principles of design.
3. Analyze works of art and design and convincingly form and defend value judgments of these works.
4. Identify and solve visual problems within a variety of physical, technological, social and cultural contexts.

#### Major requirements for the Art Emphasis: [A020/04776/1002.00/50.0701]

<i>Core requirements, plus:</i>		Units
ART 16	Introduction to Painting	3
ART 18	Introduction to Ceramics	3
PHOTO 7	Introduction to Digital Photography (or PHOTO 10, Beginning Photography)	4

#### Plus one course from the following:

ART 407	History of Design	3
ARTH 1	Contemporary Art: 1945-Present	3
ARTH 3	Survey of Western Art from Prehistory through the Middle Ages	3
ARTH 5	Survey of Western Art from the Renaissance through Contemporary	3
ARTH 11	Survey of Asian Arts	3

#### Plus one course from the following:

ART 32	Intermediate Drawing	4
ART 34	Intermediate Painting	4
ART 35	Intermediate Ceramics	3

**Total units for the major 34-35**

**Recommended Courses:** ARTH 3 & 5 (above), ART 44

### Ceramics Studio Emphasis

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate technical skills for producing art in ceramics.
2. Create work that demonstrates an understanding of the visual elements and principles of design as they apply to ceramics.
3. Analyze works of ceramic art and convincingly form and defend value judgments of these works.
4. Identify and solve visual problems within a variety of physical, technological, social and cultural contexts with an emphasis in ceramics.

<b>Major requirements for the Ceramics Studio Emphasis:</b> [A025/04777/1002.30/50.0711]	Units
<i>Core requirements, plus:</i>	18
ART 18 Introduction to Ceramics	3
ART 20 Ceramic Sculpture	4
ART 35 Intermediate Ceramics	3
ART 40 Advanced Ceramics	3
ART 44 Mixed-Media Studio and Theory	3
ARTH 1 Contemporary Art: 1945 – Present	3

**Total units for the major** 37

**Recommended Courses:** ARTH 9, ART 16, 50

## Drawing/Painting Studio Emphasis

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate technical skills for producing art in drawing or painting.
2. Create work that demonstrates an understanding of the visual elements and principles of design as they apply to drawing or painting.
3. Analyze drawings and paintings and convincingly form and defend value judgments of these works.
4. Identify and solve visual problems within a variety of physical, technological, social and cultural contexts with an emphasis in drawing or painting.

<b>Major requirements for the Drawing/Painting Studio Emphasis:</b> [A030/10366/1002.10/50.0705]	Units
<i>Core requirements, plus:</i>	18
ART 16 Introduction to Painting	3
ART 30 Figure Drawing	3
ART 32 Intermediate Drawing	4
ART 34 Intermediate Painting	4
ARTH 1 Contemporary Art: 1945-Present	3

**Total units for the major** 35

**Recommended Courses:** ART 44, 62A; PHOTO 7, 9, 10

## Intermedia Emphasis

The Intermedia emphasis provides students an interdisciplinary approach to art making with exploration in mixed media, sculpture, installation, and multimedia. Curriculum integrates a variety of subjects to encourage artistic exploration of traditional modes of production within the interrelated disciplines.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate technical skills for producing art within a multidisciplinary art practice.
2. Create works that demonstrate conceptual and aesthetic explorations utilizing a variety of media.
3. Analyze a variety of media and convincingly form and defend value judgments of these works.
4. Identify and solve visual problems within a variety of physical, technological, social and cultural contexts as it applies to a multidisciplinary arts practice.

<b>Major requirements for the Intermedia Emphasis:</b> [A040/10367/1002.00/50.0701]	Units
<i>Core requirements, plus:</i>	18
ART 44 Mixed-Media Studio and Theory	3
ART 50 Introduction to Sculpture	4
ART 63 Introduction to Graphic Design	4
ART 82 Introduction to Multimedia	4
ART 482 Editing Digital Media	4
ARTH 1 Contemporary Art: 1945-Present	3

**Total units for the major** 40

**Recommended Courses:** BRDCAST 3; CINEMA 25; PHOTO 1, 7, 9, 10

## ART/DIGITAL MEDIA

The Digital Media program is a cross-discipline program designed to prepare students for employment in the fields of visual design for print, screen, and time based media including web, multimedia and motion graphics. The programs' focus is to educate students for college transfer to 4-year programs or professional training in digital media design. Both fundamental and advanced courses are offered in state of the art facilities taught by distinguished professors from the fine art, graphic design and multimedia industries. The program offers transfer credits, AA degrees and certificate programs in three separate digital media career field emphases. The focus of these programs is to examine the creative design and content development process in relationship to technology in a rapidly evolving communication environment. The Digital Media program prepares students for transfer to the University of California, California State University, and most private art colleges in the nation. To transfer, students should consult with the intended transfer institution to obtain a list of appropriate courses to complete at Chaffey College.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Arts Degree:</b>	Units
<i>Core requirements:</i>	
ART 10 Fundamentals of Design in Two Dimensions	4
ART 63 Introduction to Graphic Design	4
ART 73 Typography and Layout	4
ART 82 Introduction to Multimedia	4

**Plus completion of one of the following emphases:**

### Computer Graphic Design for Print Media Emphasis

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate technical skills in computer graphic design for print media.
2. Create print media work that demonstrates an understanding of the visual elements and principles of design as they apply to computer graphic design.
3. Analyze print media and convincingly form and defend value judgments of these works.
4. Identify and solve visual problems within a variety of physical, technological, social and cultural contexts with an emphasis in computer graphic design for print media.

### Major requirements for the Computer Graphic Design for Print Media Emphasis:

[A045/12210/0614.60/11.0803]	Units
<i>Core requirements, plus:</i>	16
ART 14 Introduction to Drawing	3
ART 83 Internet and Web Design	4
ART 407 History of Design	3
ART 474 Identity System Design (or ART 89*, Student Invitational Exhibition)	4
ARTH 1 Contemporary Art: 1945 - Present	3
PHOTO 7 Introduction to Digital Photography	4

**Total units for the major** 37

\* Students taking ART 89 must pass faculty review of creative proposal and portfolio in November for following spring term.

## Computer Graphic Design for Print Media Certificate

The Computer Graphic Design for Print Media Certificate of Achievement is intended for students who are not matriculating through a degree program. This curriculum prepares students for the graphic design industry with entry-level skills for industry employment with an emphasis in print media.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate technical and critical skills for entry-level positions in the print media field.
2. Develop an understanding of contemporary issues in the print media field.
3. Identify and solve visual problems in the creation of print media projects.

### Requirements for the Computer Graphic Design for Print Media Certificate:

[T046/20696/0614.60/11.0803]	Units
<b>Core requirements, plus:</b>	16
ART 14 Introduction to Drawing	3
ART 83 Internet and Web Design	4
ART 407 History of Design	3
ART 474 Identity System Design	4
ARTH 1 Contemporary Art: 1945 - Present	3
PHOTO 7 Introduction to Digital Photography	4

**Total units for the certificate** 37

**Recommended Courses:** ARTH 5, ART 12; PHOTO 9

## Design for Multimedia Emphasis

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate technical skills in digital design for multimedia.
2. Create work that demonstrates an understanding of the visual elements and principles of design as they apply to digital design for multimedia.
3. Analyze multimedia and convincingly form and defend value judgments of these works.
4. Identify and solve visual problems within a variety of physical, technological, social and cultural contexts with an emphasis in multimedia.

### Major requirements for the Design for Multimedia Emphasis:

[A046/12211/0614.10/10.0304]	Units
<b>Core requirements, plus:</b>	16
ART 14 Introduction to Drawing	3
ART 83 Internet and Web Design	4
ART 474 Identity System Design (or ART 89*, Student Invitational Exhibition)	4
ART 482 Editing Digital Media	4
ART 484 2D Motion Graphic Animation	4
ARTH 1 Contemporary Art: 1945 - Present	3

### Plus one of the following:

CINEMA 25 Survey of World Cinemas	3
PHOTO 7 Introduction to Digital Photography	4

**Total units for the major** 41-42

\* Students taking ART 89 must pass faculty review of creative proposal and portfolio in November for following spring term.

## Design for Multimedia Certificate

The Design for Multimedia Certificate of Achievement is intended for students who are not matriculating through a degree program. The curriculum prepares students to enter the multimedia design industry with entry level skills for a variety of digital media industry employment.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate technical and critical skills for entry-level positions in the design for multimedia field.
2. Develop an understanding of contemporary issues in the design for multimedia field.
3. Identify and solve visual problems in the creation of design for multimedia projects.

### Requirements for the Design for Multimedia Certificate:

[T047/20691/0614.10/10.0304]	Units
<b>Core requirements, plus:</b>	16
ART 14 Introduction to Drawing	3
ART 83 Internet and Web Design	4
ART 474 Identity System Design	4
ART 482 Editing Digital Media	4
ART 484 2D Motion Graphic Animation	4
ARTH 1 Contemporary Art: 1945 - Present	3

### Plus one of the following:

CINEMA 25 Survey of World Cinemas	3
PHOTO 7 Introduction to Digital Photography	4

**Total units for the certificate** 41-42

**Recommended Courses:** ARTH 5, ART 12, 407; CINEMA 26

## Web Design Emphasis

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate technical skills for web design.
2. Create work that demonstrates an understanding of the visual elements and principles of design as they apply to web design.
3. Analyze web design and convincingly form and defend value judgments of these works.
4. Identify and solve visual problems within a variety of physical, technological, social and cultural contexts with an emphasis in web design.

### Major requirements for the Web Design Emphasis:

[A048/12213/0614.30/11.0801]	Units
<b>Core requirements, plus:</b>	16
ART 14 Introduction to Drawing	3
ART 83 Internet and Web Design	4
ART 407 History of Design	3
ART 474 Identity System Design (or ART 89*, Student Invitational Exhibition)	4
ART 484 2-D Motion Graphic Animation	4
ARTH 1 Contemporary Art: 1945 - Present	3
PHOTO 7 Introduction to Digital Photography	4

**Total units for the major** 41

\* Students taking ART 89 must pass faculty review of creative proposal and portfolio in November for following spring term.

## Web Design Certificate

The Web Design Certificate of Achievement is intended for students who are not matriculating through a degree program. The curriculum prepares students to enter the web design industry with entry level skills for a variety of digital media industry employment.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate technical and critical skills for entry-level positions in the web design field.
2. Develop an understanding of contemporary issues in the web design field.
3. Identify and solve visual problems in the creation of web design projects.

<b>Requirements for the Web Design Certificate:</b>		Units
T049/20692/0614.30/11.0801]		
<i>Core requirements, plus:</i>		
ART 14	Introduction to Drawing	3
ART 83	Internet and Web Design	4
ART 407	History of Design	3
ART 474	Identity System Design	4
ART 484	2-D Motion Graphic Animation	4
ARTH 1	Contemporary Art: 1945 - Present	3
PHOTO 7	Introduction to Digital Photography	4
<b>Total units for the certificate</b>		<b>41</b>

**Recommended Courses:** PHOTO 9

## ART/VISUAL COMMUNICATION: ILLUSTRATION

The Illustration program develops students' ability to visually communicate ideas. Primary emphasis is on conceptual development and refinement of technical skills in varied forms including drawing, painting, and digital imagery. The Illustration Program is designed to assist students in the preparation of a portfolio for transfer to a four-year institution. To transfer, students should consult with the intended transfer institution to obtain a list of appropriate courses to complete at Chaffey College.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate technical skills in illustration.
2. Create work that demonstrates an understanding of the visual elements and principles of design as they apply to illustration.
3. Analyze illustration and convincingly form and defend value judgments of these works.
4. Identify and solve visual problems within a variety of physical, technological, social and cultural contexts with an emphasis in illustration.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Science Degree:</b>		Units
[S045/04782/1013.00/50.0402]		
ART 10	Fundamentals of Design in Two Dimensions	4
ART 14	Introduction to Drawing	3
ART 15	Color Theory	3
ART 16	Introduction to Painting	3
ART 30	Figure Drawing	3
ART 62A	Illustration I	3
ART 62B	Illustration II	3
ART 63	Introduction to Graphic Design	4
ART 73	Typography and Layout	4
ART 89*	Student Invitational Exhibition (or ART 488*, Portfolio and Presentation)	4
ART 478	Illustration on the Computer	3
<b>Plus one course from the following:</b>		
ART 32	Intermediate Drawing	4
ART 34	Intermediate Painting	4
ART 407	History of Design	3
ART 474	Identity System Design	4
ARTH 1	Contemporary Art: 1945 – Present	3
<b>Total units for the major</b>		<b>40-41</b>

\* A substantial number of core and emphasis requirements should be completed prior to enrollment. Students taking ART 89 must pass faculty review of creative proposal and portfolio in November for following spring term.

## Illustration Certificate

The Illustration Certificate of Achievement is intended for students who are not matriculating through a degree program. The program is designed to assist students in the preparation of a portfolio for employment in the field of illustration.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate technical and critical skills for entry-level positions in the visual communication/illustration field.
2. Develop an understanding of contemporary issues in the visual communication/illustration field.
3. Identify and solve a variety of visual communication/illustration problems through the creation of illustration projects.

<b>Requirements for the Illustration Certificate:</b>		Units
[T045/20718/1013.00/50.0402]		
ART 10	Fundamentals of Design in Two Dimensions	4
ART 14	Introduction to Drawing	3
ART 15	Color Theory	3
ART 16	Introduction to Painting	3
ART 30	Figure Drawing	3
ART 62A	Illustration I	3
ART 62B	Illustration II	3
ART 63	Introduction to Graphic Design	4
ART 73	Typography and Layout	4
ART 478	Illustration on the Computer	3
ART 488*	Portfolio and Presentation	4

### Plus two courses from the following:

ART 32	Intermediate Drawing	4
ART 34	Intermediate Painting	4
ART 407	History of Design	3
ART 474	Identity System Design	4
ARTH 1	Contemporary Art: 1945 – Present	3

**Total units for the certificate** **43-45**

\* Take ART 488 near the end of program.



## ART HISTORY ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Art History for Transfer degree prepares students for transfer to four-year colleges and universities and for careers in education, museums, research, and related fields. Students learn the major theories and artistic movements in Art and Architecture from the ancient to the modern world, and evaluate the influences that social, political, and religious institutions have in the creation of art. The program addresses the dynamic fields of both Western and Non-Western Art and Architecture, as well as the critical roles that Photography, Contemporary Art, and Graphic Design have in shaping our society. Students should consult with the intended transfer institution to determine the appropriate courses to complete at Chaffey.

The program is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Art History guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in preparation for a career in the field of Art History.

The goals and outcomes for the Art History major include the following:

1. Prepare students for seamless transfer to a CSU to complete an Art History baccalaureate degree.



2. Prepare students for advanced studies within the field of Art History.

To obtain the Art History AA-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course. "P" (pass) grades are not acceptable for courses in the major.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

#### **Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Identify and describe formal stylistic characteristics and principal developments in the visual arts and relate them to their historical context.
2. Interpret the historical function and meaning of art through research and analysis of multiple forms of evidence.
3. Use discipline specific terminology in oral and written communication to evaluate the significance of the theories, disciplines, and practices of art history.
4. Recognize and respect diverse individuals, social forces, and ideologies of the world's cultures through the study of the visual arts.

#### **Major requirements for the Associate in Arts for Transfer Degree** Units [A037/32344/1001.00/50.0101]

##### **Core – (9 units):**

ART 14	Introduction to Drawing	3
ARTH 3	Survey of Western Art from Prehistory through the Middle Ages	3
ARTH 5	Survey of Western Art from Renaissance to Contemporary	3

##### **List A – One course (3 units):**

ARTH 7	Arts of Africa, Oceania, and Indigenous North America	3
ARTH 9	Art of the Ancient Americas	3
ARTH 11	Survey of Asian Arts	3

##### **List B – One course (3-4 units):**

Any List A course not used above or:

ART 10	Fundamentals of Design in Two Dimensions	4
ART 12	Fundamentals of Design in Three Dimensions	4
ART 18	Introduction to Ceramics	3
ART 20	Ceramic Sculpture	4
ART 30	Figure Drawing	3
PHOTO 7	Introduction to Digital Photography	4
PHOTO 10	Beginning Photography	4

##### **List C – One course (3-4 units):**

Any List A or List B course not already used, or:

ART 16	Introduction to Painting	3
ART 44	Mixed-Media Studio and Theory	3
ARTH 1	Contemporary Art: 1945-Present	3
PHOTO 1	History of Photography	3

<b>Units for the Major</b>	<b>18-19</b>
<b>Units that may be double-counted</b>	<b>6</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>37-39</b>
<b>plus transfer-level course electives (as needed)</b>	<b>7-11</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## AUTOMOTIVE TECHNOLOGY

The Automotive Technology curriculum is designed to provide students with the skills and knowledge necessary to succeed as technicians in the automotive service industry. The Automotive Technology program at Chaffey College provides instruction pursuant to the standards defined by the National Automotive Technician Education Foundation (NATEF).

### **General Automotive Service Technician**

The General Automotive Technician curriculum is designed to provide students with the skills and knowledge necessary to obtain entry-level employment as automotive service and repair technicians. Students who successfully complete the requirements for the General Automotive Technician Associate of Science Degree will be able to perform basic automotive maintenance and service operations and be immediately productive on the job.

#### **Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Successfully complete tasks required for entry-level employment as automotive service and repair technicians.
2. Demonstrate mastery of the information required for ASE certification in the as an automotive technician.
3. Comply with personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulation.
4. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

#### **Major requirements for the Associate in Science Degree:** Units [S056/30658/0948.00/47.0604]

AUTOTEC 450	General Automotive Technician A (or AUTOTEC 10, Service and Repair, 4 and AUTOTEC 417, Brakes, 4 and AUTOTEC 418, Suspension and Steering Systems, 4)	12
AUTOTEC 455	General Automotive Technician B (or AUTOTEC 15, Auto Electricity and Electronics, 2 and AUTOTEC 416, Basic Auto Air Conditioning Systems, 2 and AUTOTEC 422, Fuel, Ignition, and Emission Control Systems, 5)	12

**Total units for the major** **21-24**

### **Master Automotive Technician**

Students who successfully complete the requirements for the Master Automotive Technician Degree will be qualified to take the examinations required for certification as an Automotive Master Technician and will receive credit for one year of related work experience towards certification.

#### **Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Successfully complete tasks required for employment as an Automotive Master Technician.
2. Demonstrate mastery of the information required for ASE certification as an Automotive Master Technician.
3. Comply with personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulation.
4. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Science Degree:</b> [S055/04770/0948.00/47.0604]		Units
AUTOTEC 423	Engine Management Systems and Drivability	4
AUTOTEC 427	Engine Operation and Service	5
AUTOTEC 429	Advanced Automotive Electrical Systems	4
AUTOTEC 432	Manual and Automatic Transmissions, Transaxles, and Drive Trains	5
AUTOTEC 450	General Automotive Technician A (or AUTOTEC 10, Service and Repair, 4 and AUTOTEC 417, Brakes, 4 and AUTOTEC 418, Suspension and Steering Systems, 4)	12
AUTOTEC 455	General Automotive Technician B (or AUTOTEC 15, Auto Electricity and Electronics, 2 and AUTOTEC 416, Basic Auto Air Conditioning Systems, 2 and AUTOTEC 422, Fuel, Ignition, and Emission Control Systems, 5)	12
<b>Total units for the major</b>		<b>39-42</b>

## AUTOMOTIVE TECHNOLOGY CERTIFICATE PROGRAMS

### Automotive Electrical Systems

The Automotive Electrical Systems Certificate prepares the student for employment as an automotive electrical systems specialist. Students with the certificate are qualified to take Automotive Service Excellence (ASE) examination for certification in Electricity/Electronics and Air Conditioning.

#### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Successfully complete tasks required for employment as an automotive electrical systems specialist.
  2. Demonstrate mastery of the information required for ASE certification in Electricity/Electronics and Air Conditioning.
  3. Comply with personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulation.

<b>Requirements for the Automotive Electrical Systems Certificate:</b> <i>(Non-transcripted)</i> [E445/99999/0948.00/47.0604]		Units
AUTOTEC 10	Service and Repair	4
AUTOTEC 15	Automotive Electricity and Electronics	2
AUTOTEC 407	Introduction to Hybrid Vehicles	2.5
AUTOTEC 416	Basic Automotive Air Conditioning Systems	2
AUTOTEC 429	Advanced Automotive Electrical Systems	4
<b>Total units for the certificate</b>		<b>14.5</b>

### Engine Performance (Smog Check) Technician

The Engine Performance Certificate provides the training required by the California Smog Check program and qualifies the student to take the Smog Check Technician license examination.

#### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Successfully complete tasks required for employment as a Smog Check Technician.
  2. Demonstrate mastery of the information required for the Smog Check Technician license examination.
  3. Comply with personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulation.

<b>Requirements for the Engine Performance (Smog Check) Technician Certificate:</b> [L448/15527/0948.00/47.0604]		Units
AUTOTEC 10	Service and Repair	4
AUTOTEC 15	Automotive Electricity and Electronics	2
AUTOTEC 422	Fuel, Ignition, and Emission Control Systems	5
AUTOTEC 423	Engine Management Systems and Drivability	4
AUTOTEC 429	Advanced Automotive Electrical Systems	4
AUTOTEC 443	Engine and Emission Control Training Level I	4
<b>Total units for the certificate</b>		<b>23</b>

### Engine Rebuilding

The Engine Rebuilding Certificate prepares students for employment as an automotive machinist.

#### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Successfully complete tasks required for employment as an automotive machinist.
  2. Demonstrate mastery of the information required for ASE certification and/or licensure in the area of engine rebuilding.
  3. Comply with personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulation.

<b>Requirements for the Engine Rebuilding Certificate</b> <i>(Non-transcripted):</i> [L449/99999/0948.00/47.0604]		Units
AUTOTEC 430	Engine Rebuilding - Upper Engine	5
AUTOTEC 431	Engine Rebuilding - Lower Engine	5
<b>Total units for the certificate</b>		<b>10</b>

### General Automotive Service Technician

This program prepares students for entry level employment as automotive service and repair technicians. Basic automotive maintenance and service operations are stressed to allow students to be immediately productive on the job. Safety and environmental protection are also stressed. Consumer protection and professional ethics are covered in depth.

#### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Successfully complete tasks required for entry-level employment as automotive service and repair technicians.
  2. Demonstrate mastery of the information required for ASE certification and/or licensure in the area specified in the program.
  3. Comply with personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulation.

<b>Requirements for the General Automotive Service Technician Certificate:</b> Units [L446/15528/0948.00/47.0604]		Units
AUTOTEC 450	General Automotive Technician A (or AUTOTEC 10, Service and Repair, 4 and AUTOTEC 417, Brakes, 4 and AUTOTEC 418, Suspension and Steering Systems, 4)	12
AUTOTEC 455	General Automotive Technician B (or AUTOTEC 15, Auto Electricity and Electronics, 2 and AUTOTEC 416, Basic Auto Air Conditioning Systems, 2 and AUTOTEC 422, Fuel, Ignition, and Emission Control Systems, 5)	12
<b>Total units for the certificate</b>		<b>21-24</b>

## High Performance Engines Building and Blueprinting

The High Performance Engines Building and Blueprinting Certificate signifies that the student has developed skills in advanced engine machining and modification for improved performance. Students build on the skills developed in engine rebuilding courses to learn how to build and blueprint engines that exceed the manufacturer's original horsepower and torque ratings.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Successfully complete tasks required for employment in related to high performance engine building and blueprinting.
2. Apply skills in advanced engine machining and modification that exceed the manufacturer's original horsepower and torque ratings.
3. Comply with personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulation.

### Requirements for the High Performance Engines Certificate Units

*(Non-transcripted):*

[E110/99999/0948.00/47.0604]

AUTOTEC 430	Engine Rebuilding – Upper Engine	5
AUTOTEC 431	Engine Rebuilding – Lower Engine	5
AUTOTEC 435	High Performance Engine Building and Blueprinting	5

**Total units for the certificate 15**

## Master Automotive Technician

Students who successfully complete the requirements for the Master Automotive Technician Certificate will be qualified to take the examinations required for certification as an Automotive Master Technician and will receive credit for one year of related work experience towards certification.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Successfully complete tasks required for employment as an Automotive Master Technician.
2. Demonstrate mastery of the information required for ASE certification as an Automotive Master Technician.
3. Comply with personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulation.

### Requirements for the Master Automotive Technician Certificate: Units

[T055/20708/0948.00/47.0604]

AUTOTEC 423	Engine Management Systems and Drivability	4
AUTOTEC 427	Engine Operation and Service	5
AUTOTEC 429	Advanced Automotive Electrical Systems	4
AUTOTEC 432	Manual and Automatic Transmissions, Transaxles, and Drive Trains	5
AUTOTEC 450	General Automotive Technician A (or AUTOTEC 10, Service and Repair, 4 and AUTOTEC 417, Brakes, 4 and AUTOTEC 418, Suspension and Steering Systems, 4)	12
AUTOTEC 455	General Automotive Technician B (or AUTOTEC 15, Auto Electricity and Electronics, 2 and AUTOTEC 416, Basic Auto Air Conditioning Systems, 2 and AUTOTEC 422, Fuel, Ignition, and Emission Control Systems, 5)	12

**Total units for the certificate 39-42**

## AVIATION MAINTENANCE TECHNOLOGY

This program provides coursework needed for the Associate in Science degree major in Aviation Maintenance Airframe and/or Powerplant Technology and is intended for those students who wish to transfer to a four-year institution. The program also meets requirements for the Federal Aviation Administration (FAA) Airframe and Powerplant Certificates. Airframe and Powerplant technicians are in demand by airlines and aviation maintenance providers. The Aviation Maintenance Technology program at Chaffey College is fully approved by the FAA to provide the experience required to become an Airframe or Powerplant technician.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

Major requirements for the Associate in Science Degree:		Units
AMT 15	Introduction to Aviation Maintenance for Airframe and Powerplant	14
AMT 16A	Aviation Materials, Processes, Inspections and Regulations	1
AMT 16B	Aviation Science	1

### Plus completion of one of the following emphases:

#### Airframe Emphasis

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate critical thinking and problem solving appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
2. Demonstrate skills that foster communication appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
3. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

### Major requirements for the Airframe Emphasis: Units

[S011/04772/0950.10/47.0607]

Core requirements, plus:		Units
AMT 35	Airframe Structures: Fabrication, Inspection and Repair	7
AMT 36	Aircraft Primary Systems	7
AMT 37	Aircraft Secondary Systems	7
AMT 38A	Airframe Structure: Structure Fabrication	1
AMT 38B	Airframe Structure: Hydraulic Systems	1
AMT 38C	Airframe Structure: Aircraft Secondary Systems and Components	1

**Total units for the major 40**

#### Airframe Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate skills that foster critical thinking and problem solving appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
2. Demonstrate skills that foster communication appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
3. Demonstrate skills to procure or advance in the aviation job market.

### Requirements for the Airframe Certificate:

[L011/20711/0950.10/47.0607]

Same as the major requirements for the Airframe A.S. Degree (core + emphasis)

**Total units for the certificate 40**

## Powerplant Emphasis

### Student Learning Outcomes:

Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate critical thinking and problem solving appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
2. Demonstrate skills that foster communication appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
3. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

Major requirements for the Powerplant Emphasis:	Units
[S012/04773/0950.20/47.0608]	
<b>Core requirements, plus:</b>	<b>16</b>
AMT 25 Powerplant: Aircraft Reciprocating Engines	7
AMT 26 Powerplant: Engine Instrumentation, Lubrication, & Electrical	7
AMT 27 Powerplant: Reciprocating Engine Fuel and Auxiliary Systems	7
AMT 28A Powerplant: Reciprocating Engine Inspection	1
AMT 28B Powerplant: Electrical Systems	1
AMT 28C Powerplant: Turbine Engine Auxiliary Systems	1
<b>Total units for the major</b>	<b>40</b>

## Powerplant Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate skills that foster critical thinking and problem solving appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
2. Demonstrate skills that foster communication appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
3. Demonstrate skills to procure or advance in the aviation job market.

### Requirements for the Powerplant Certificate:

[L012/20712/0950.20/47.0608]

Same as the major requirements for the Powerplant A.S. Degree (core + emphasis)

**Total units for the certificate** **40**

## Aviation Maintenance Certificate

The Aviation Maintenance certificate is intended for students who desire a comprehensive course of study in both the airframe and powerplant systems, as opposed to those requiring only one certificate. This certificate will meet the needs of students who - per Federal guidelines - require continuous enrollment throughout each and every semester of the two year Aviation Maintenance Technician (AMT) Program.

Airframe and Powerplant technicians are in demand by airlines and aviation maintenance providers. The Aviation Maintenance Technology program at Chaffey College is fully approved by the Federal Aviation Administration (FAA) to provide experience required to become an Airframe or Powerplant technician. This certificate meets requirements for both the FAA Airframe and Powerplant Certificates.

### Student Learning Outcomes:

1. Demonstrate skills that foster critical thinking and problem solving appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
2. Demonstrate skills that foster communication appropriate to the national and international general aviation, corporate aviation, commercial aviation, aerospace, unmanned aerial vehicles and other emerging aviation technologies.
3. Demonstrate skills to procure or advance in the aviation job market.

### Requirements for the Aviation Maintenance Certificate: Units

[F010/32996/0950.00/47.0607]

AMT 15	Introduction to Aviation Maintenance for Airframe and Powerplant	14
AMT 16A	Aviation Materials, Processes, Inspections and Regulations	1
AMT 16B	Aviation Science	1
AMT 25	Powerplant: Aircraft Reciprocating Engines	7
AMT 26	Powerplant: Engine Instrumentation, Lubrication, & Electrical	7
AMT 27	Powerplant: Reciprocating Engine Fuel and Auxiliary Systems	7
AMT 28A	Powerplant: Reciprocating Engine Inspection	1
AMT 28B	Powerplant: Electrical Systems	1
AMT 28C	Powerplant: Turbine Engine Auxiliary Systems	1
AMT 35	Airframe Structures: Fabrication, Inspection and Repair	7
AMT 36	Aircraft Primary Systems	7
AMT 37	Aircraft Secondary Systems	7
AMT 38A	Airframe Structure: Structure Fabrication	1
AMT 38B	Airframe Structure: Hydraulic Systems	1
AMT 38C	Airframe Structure: Aircraft Secondary Systems and Components	1
<b>Total units for the certificate</b>		<b>64</b>

## BIOLOGY

The Biological Sciences Major is designed for students who plan to earn a Bachelor's Degree in Biology. The program includes courses that explore life at the molecular, cellular, organismal and ecological levels, providing a foundation for further study in the life sciences and related fields of study (e.g. medicine, dentistry, veterinary science, agriculture, botany, microbiology, zoology, entomology, ecology).

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate skill in scientific thinking, communication, problem solving and experimental methodology
2. Discuss current scientific hypotheses of the evolutionary origins of organismal diversity.
3. Apply evolutionary theory and structure-function relationships, relative to interactions between biological entities and their environments, as unifying ideas across all levels of biological organization.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

### Major requirements for the Associate in Science Degree: Units

[S065/04755/0401.00/26.0101]

BIOL 61	Introduction to Cell and Molecular Biology	5
BIOL 62	Biology of Organisms	5
BIOL 63	Evolutionary Ecology	4
CHEM 24A	General Chemistry I	5
CHEM 24B	General Chemistry II	5
MATH 65A	Calculus I	4



**Plus one course from the following:**

BIOL 23	General Microbiology	3
CHEM 75A	Organic Chemistry I	5
MATH 65B	Calculus II	4
PHYS 20A	Algebra/Trigonometry College Physics I	4
PHYS 30A	Physics for the Medical and Life Sciences I	4
PHYS 45	Physics for Scientists and Engineers	4

**Total units for the major** **31-33**

## BROADCASTING AND CINEMA

Students may arrange their own program of courses in broadcasting and cinema production, including cinema studies, producing, broadcast audio, television and radio announcing, radio production, scriptwriting, postproduction editing, TV production, cinema, and HDTV production.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Synthesize a basic overview of the historical practices and personnel involved in the three production phases of the motion picture and broadcasting process.
2. Conceptualize and arrange subject matter (such as script, film and/or radio content, storyboarding,) in aspects of broadcasting and cinema.
3. Complete a production of his/her announcing voice and/or film/TV production reel.
4. Operate industry standard equipment and computer software programs.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

**Major requirements for the Associate in Science Degree:** Units  
[S070/04764/0604.00/09.0701]

BRDCAST 3	Introduction to Electronic Media	3
BRDCAST 74	High Definition Cinematography	3
CINEMA 20	Screenwriting - Cinema	3
CINEMA 22	Introduction to Media Writing	3
CINEMA 25	Survey of World Cinemas	3
CINEMA 30	Beginning Motion Picture Production	3
CINEMA 80	Producing for Broadcast and Cinema	3

**Plus nine units from the following:**

BRDCAST 55	Beginning Audio Production	3
BRDCAST 60	Beginning Single Camera Production	3
BRDCAST 62	Beginning TV Studio Production	3
BRDCAST 67	Beginning Radio Production	3
BRDCAST 70	Postproduction for Broadcasting and Cinema	3
CINEMA 26	Survey of American Cinema	3
CINEMA 96	Internships in Cinema Television or Radio	3

**Total units for the major** **30**

## BROADCASTING AND CINEMA CERTIFICATE PROGRAMS

### Motion Picture Production

This certificate trains students for career paths in the field of motion picture production, focusing on the technical aspects of the preproduction, production, and post-production phases of the cinematic image. Production process includes motion picture cinema camera operation, microphone placement, audio operation, lighting, art direction and set design. Students utilize Pro8 MM reversal and negative film stocks to shoot and edit various student projects. Courses assist students to develop communication, computer, problem-solving, and technical skills needed for employment in the motion picture and entertainment industries.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate professional and creative operation of cinema cameras.
2. Demonstrate professional and creative competencies with microphone placement and audio operation.
3. Demonstrate professional and creative theories of lighting a set.
4. Demonstrate professional and creative theories of set design.

**Requirements for the Motion Picture Production Certificate:** Units  
[B001/33195/0612.20/50.0602]

BRDCAST 70	Postproduction for Broadcasting and Cinema	3
BRDCAST 74	High Definition Cinematography (or CINEMA 80, Producing for Broadcast and Cinema (or CINEMA 96, Internships in Cinema, Television or Radio)	3
CINEMA 20	Screenwriting – Cinema	3
CINEMA 26	Survey of American Cinema	3
CINEMA 30	Beginning Motion Picture Production	3

**Total units for the certificate** **15**

### On-Air Radio Production

This certificate trains students for career paths in the field of radio and electronic media. Coursework integrates news writing, music programming, talk, and other radio program formats. Hands-on experience on Chaffey College radio 1630 AM and live radio Internet streaming. Principles of FCC and AM Alert rules and regulations are covered. Courses assist students to develop communication, computer, problem-solving, and technical skills needed for employment in the broadcast industry.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Synthesize a basic overview of the historical practices and personnel involved in the three production phases of the broadcasting process.
2. Conceptualize and arrange subject matter (e.g. radio content, storyboarding) in aspects of broadcasting.
3. Complete a production of his/her announcing voice.
4. Operate industry-standard equipment and computer software programs.

**Requirements for the On-Air Radio Production Certificate**  
**(Non-transcribed):** Units  
[E072/99999/0604.10/09.0701]

BRDCAST 3	Introduction to Electronic Media	3
BRDCAST 55	Beginning Audio Production	3
BRDCAST 67	Beginning Radio Production	3
CINEMA 80	Producing for Broadcast and Cinema (or CINEMA 96, Internships in Cinema, Television or Radio)	3

**Total units for the certificate** **12**

### Post Production Editing

This certificate trains students for career paths in the field of motion picture and television post production editing. Post production focuses on the editing and completion of student projects using Final Cut Pro and various Adobe and Avid editing software programs. Courses assist students to develop communication, computer, problem-solving, and technical skills needed for employment in the motion picture and entertainment industries.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate a working knowledge of Final cut Pro software.
2. Demonstrate a working knowledge of Adobe editing software features.
3. Demonstrate a working knowledge of Avid editing software.
4. Demonstrate artistic, enterprising and investigative expression within film editing processes.

<b>Requirements for the Post Production Editing Certificate:</b>		Units
[B002/33194/0612.20/50.0602]		
BRDCAST 70	Postproduction for Broadcasting and Cinema	3
CINEMA 22	Introduction to Media Writing	3
CINEMA 25	Survey of World Cinemas	3
CINEMA 26	Survey of American Cinema	3
CINEMA 30	Beginning Motion Picture Production (or BRDCAST 60, Beginning Single Camera Production) (or BRDCAST 74, High Definition Cinematography) (or CINEMA 96, Internships in Cinema, Television or Radio)	3
<b>Total units for the certificate</b>		<b>15</b>

### Screenwriting

This certificate trains students for career paths in the field of motion picture and television screenwriting. Screenwriting for motion picture, television, and new media prepares students to work in the story preparation and idea-development areas. Courses include the study of screenplay structure, characterization, theme, scene execution, and writing dialogue. Courses help students to develop communication, computer, problem-solving, and technical skills needed for employment in the motion picture and entertainment industries.

#### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate professional and creative written expression as they apply to a television, motion picture or video production.
2. Demonstrate professional and creative written expression as they relate to the physical environment of the storyline.
3. Demonstrate professional and creative written expression as they apply to the moods of characters in the story.

<b>Requirements for the Screenwriting Certificate:</b>		Units
[B003/33226/0604.20/09.0701]		
CINEMA 20	Screenwriting – Cinema	3
CINEMA 22	Introduction to Media Writing	3
CINEMA 25	Survey of World Cinemas	3
CINEMA 26	Survey of American Cinema	3
CINEMA 30	Beginning Motion Picture Production (or CINEMA 96, Internships in Cinema, Television or Radio)	3
<b>Total units for the certificate</b>		<b>15</b>

### Television and Video Production

This certificate trains students for career paths in the field of television and video production. Television production focuses on the technical and storytelling aspects of single- and multi-camera production, including camera operation, microphone placement, audio operation, lighting, art direction, and set design. Students have hands-on experience in Chaffey College's state of the art high-definition TV studio. Courses help students to develop communication, computer, problem-solving, and technical skills needed for employment in the television and video industries.

#### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate a working knowledge camera operation.
2. Demonstrate a working knowledge of microphone placement and audio operation.
3. Demonstrate a working knowledge of lighting.
4. Demonstrate a working knowledge of art direction and set design.

<b>Requirements for the Television and Video Production Certificate:</b>		Units
[B004/33193/0604.20/09.0701]		
BRDCAST 3	Introduction to Electronic Media	3
BRDCAST 60	Beginning Single Camera Production	3
BRDCAST 62	Beginning TV Studio Production	3
BRDCAST 74	High Definition Cinematography (or CINEMA 80, Producing for Broadcast and Cinema) (or CINEMA 96, Internships in Cinema, Television or Radio)	3
CINEMA 20	Screenwriting - Cinema	3
<b>Total units for the certificate</b>		<b>15</b>



## BUSINESS ADMINISTRATION ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Business Administration for Transfer (AS-T) degree provides students with sufficient understanding of basic concepts, skills, and applications to attain upper-division status in Business Administration in the CSU system, and is intended for students who plan to complete a bachelor's degree in Business Administration at a California State University (CSU) campus. Typical Business Administration concentrations at CSU campuses may include – but are not limited to – Accounting, Management, Marketing, Finance, Human Resources, International Business, Entrepreneurship, Risk Management, Operations Management, Real Estate, and Information Management.

Successful completion of the transfer degree in Business Administration guarantees the student acceptance to a California State University, but does not guarantee acceptance to a particular campus or major. Universities and colleges outside of the CSU system may have different requirements for their Business or related programs. Chaffey's Business Department also offers an A.S. degree in Applied Business that is not tailored to the transfer requirements of a CSU business program. That degree may be a more appropriate choice, depending on the student's career or educational plans. Students having a Business Administration AS-T and who are accepted at a particular CSU campus are required to complete no more than 60 additional units after transfer to earn a bachelor's degree. In all cases, students are advised to consult with a counselor for more information on degree requirements, or university admission and transfer requirements.

*To obtain the Business Administration Associate in Science for Transfer (AS-T) degree, students must:*

1. Complete the major requirements listed below with grades of C or better.
2. Complete a minimum of 60 semester CSU transferable units with a minimum grade point average (GPA) of 2.0.
3. Complete either the California State University General Education Breadth pattern (CSU-GE), or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

#### Student Learning Outcomes:

Upon the successful completion of this degree, students shall:

1. Be eligible to transfer to a CSU campus to pursue a Business Administration degree.
2. Have examined core business concepts and built an educational foundation such that they are prepared to earn a Business Administration degree at a CSU campus.
3. Have examined core accounting concepts and built an educational foundation such that they are prepared to earn a Business Administration degree at a CSU campus.
4. Have examined core economic concepts and built an educational foundation such that they are prepared to earn a Business Administration degree at a CSU campus.
5. Have examined core mathematical concepts and built an educational foundation such that they are prepared to earn a Business Administration degree at a CSU campus.

**Major requirements for the Associate in Science Transfer (AS-T) Degree** Units  
[S076/31737/0505.00/52.0201]**Required (17 units):**

ACCTG 1A	Financial Accounting	4
ACCTG 1B	Managerial Accounting	4
BUS 28A	Business Law I	3
ECON 2	Principles of Macroeconomics	3
ECON 4	Principles of Microeconomics	3

**List A – Any one course (4 units)**

MATH 60	Calculus for Business	4
STAT 10	Elementary Statistics (or SCSCI 10, Statistics for Social Science)	4

**List B – Any two courses (6-7 units)**

Any List A course not used above, and/or:

BUS 10	Introduction to Business (or BUS 88, Business Communication)	3
CIS 1	Introduction to Computer Information Systems	3

<b>Units for the Major</b>	<b>27-28</b>
<b>plus CSU General Education or IGETC Pattern</b>	<b>39-42</b>
<b>Units That May Be Double-Counted</b>	<b>13</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## BUSINESS - GENERAL BUSINESS

The Associate in Science in Business focuses on the study of Business and, depending on the concentration chosen, allows the student to obtain a general background in business principles and techniques, or to focus on specific business areas or specialties. Concentrations are available in General Business, Management, Small Business, and Supervision. Each concentration shares a core of business courses that give students a foundation for the study of business and their business career. These courses provide a solid grounding in business law, communication, accounting, and business ethics.

The General Business concentration provides a broad range of options for students to learn about and experience business concepts from diverse areas, including Management, Marketing, International Business, Accounting, Logistics, and Economics. The Associate in Science in Business with a General Business Concentration is designed for the student seeking a career in business upon completion of the Associate Degree. This degree may also be appropriate for students planning to transfer to a four-year institution other than a California State University. Students in this category should consult with a counselor to make sure their education plan is consistent with this objective. Students interested in Retail Management or Logistics should consider Chaffey College's specialized programs in these areas.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students shall:

1. Understand the social and ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of general business, marketing, and management.
3. Demonstrate the ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.
5. Have examined core business concepts and built a broad foundation in Business and related topics.
6. Have examined a variety of general education subjects that enable them to better understand the broader world in which organizations operate.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

**Major requirements for the Associate in Science Degree:** Units  
[S075A/04757/0505.00/52.0201]**Core courses (15-16 units)**

ACCTG 1A	Financial Accounting (or ACCTGFS 465, Financial Accounting for the Non-Accounting Major, 3)	4
BUS 10	Introduction to Business	3
BUS 28A	Business Law I	3
BUS 60	Business Ethics	3
BUS 88	Business Communication	3

**Required courses for General Business Concentration (6 units)**

BUSMGT 40	Introduction to Management	3
BUSMKT 40	Marketing Principles	3

**Plus nine units from the following:**

ACCTG 1B	Managerial Accounting	4
ACCTGFS 442	Fundamentals of Finance and Investing	3
ACCTGFS 472	International Trade Finance	3
BUS 28B	Business Law II	3
BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUS 61	Introduction to Global Business	3
BUS 410	International Business Law	3
BUS 435	The Law of Marketing and Business Competition	3
BUSMGT 11	Retail Merchandising and Management	3
BUSMGT 42	Human Resource Management	3
BUSMGT 44	Introduction to Human Relations	3
BUSMGT 45	Small Business Ownership and Management	3
BUSMGT 436	Introduction to Logistics Management	3
BUSMGT 440	Principles of Leadership	2
BUSMGT 460	Quality Management Principles	3
BUSMGT 480	Principles of Supervision	3
BUSMKT 13	Professional Selling	3
BUSMKT 55	Advertising	3
BUSMKT 402	Introduction to Import/Export	3
BUSMKT 405	International Marketing	3
ECON 1	Introduction to Economics (or ECON 2, Principles of Macroeconomics or ECON 4, Principles of Microeconomics)	3

**Total units for the major** **39-31**

**General Business Certificate**

The General Business Certificate prepares students for entry level business and management training positions. It is also appropriate for students seeking further education to obtain career advancement.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students shall:

1. Understand the social and ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of general business, marketing, and management.
3. Demonstrate the ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.

**Requirements for the General Business Certificate:** Units  
[L075A/20677/0505.00/52.0201]

BUS 10	Introduction to Business	3
BUS 88	Business Communication	3
BUSMGT 40	Introduction to Management (or ECON 4, Principles of Microeconomics)	3
BUSMKT 40	Marketing Principles	3

**Plus six units from the following:**

ACCTGFS 442	Fundamentals of Finance and Investing	3
ACCTGFS 472	International Trade Finance	3
BUS 28A	Business Law I	3
BUS 28B	Business Law II	3
BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUS 60	Business Ethics	3
BUS 61	Introduction to Global Business	3
BUS 410	International Business Law	3
BUS 435	The Law of Marketing and Business Competition	3
BUSMGT 11	Retail Merchandising and Management	3
BUSMGT 42	Human Resource Management	3
BUSMGT 44	Introduction to Human Relations	3
BUSMGT 45	Small Business Ownership and Management	3
BUSMGT 436	Introduction to Logistics Management	3
BUSMGT 440	Principles of Leadership	2
BUSMGT 460	Quality Management Principles	3
BUSMGT 480	Principles of Supervision	3
BUSMKT 13	Professional Selling	3
BUSMKT 40	Marketing Principles	3
BUSMKT 55	Advertising	3
BUSMKT 402	Introduction to Import/Export	3
BUSMKT 405	International Marketing	3
ECON 1	Introduction to Economics	3
	(or ECON 2, Principles of Macroeconomics or ECON 4, Principles of Microeconomics)	

**Total units for the certificate** **18**

## BUSINESS - SMALL BUSINESS ENTREPRENEUR

The Associate in Science in Business with a concentration in Small Business Entrepreneurship focuses on the unique needs of small businesses and their owners. The curriculum is designed to enhance the success rate of entrepreneurs by providing managerial techniques and information that will be useful to anyone who wants to start a business or improve conditions in an established business. This degree may also be appropriate for students planning to transfer to a four-year institution other than a California State University. Students intending to transfer should consult with a counselor to ensure that their education plan is consistent with this objective.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students shall:

1. Examine and consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of the functional areas of small business entrepreneurship.
3. Demonstrate the ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.
5. Have examined core business concepts and build a broad foundation in Business and related topics.
6. Have examined a variety of general education subjects that enable them to better understand the broader world in which organizations operate.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

**Major requirements for the Associate in Science Degree:** Units  
[S390/07371/0506.40/52.0703]

**Core courses (15-16 units)**

ACCTG 1A	Financial Accounting (or ACCTGFS 465, Financial Accounting for the Non-Accounting Major, 3)	4
BUS 10	Introduction to Business	3
BUS 28A	Business Law I	3
BUS 60	Business Ethics	3
BUS 88	Business Communication	3

**Required Courses for the Small Business Entrepreneur Concentration (6):**

ACCTG 460	Commercial Accounting Software	3
BUSMGT 45	Small Business Ownership and Management	3

**Plus three courses from the following:**

ACCTG 435	Payroll Accounting	3
ACCTGFS 440	Introduction to Financial Planning	3
ACCTGFS 442	Fundamentals of Finance and Investing	3
ACCTGFS 453	U.S. and California Income Tax Preparation	4
ACCTGFS 454	Introduction to the Taxation of Corporations and Partnerships	4
ACCTGFS 472	International Trade Finance	3
BUS 28B	Business Law II	3
BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUS 61	Introduction to Global Business	3
BUS 435	The Law of Marketing and Business Competition	3
BUSMGT 11	Retail Merchandising and Management	3
BUSMGT 40	Introduction to Management	3
BUSMGT 42	Human Resource Management	3
BUSMGT 44	Introduction to Human Relations	3
BUSMGT 436	Introduction to Logistics Management	3
BUSMGT 440	Principles of Leadership	2
BUSMGT 460	Quality Management Principles	3
BUSMGT 480	Principles of Supervision	3
BUSMKT 13	Professional Selling	3
BUSMKT 40	Marketing Principles	3
BUSMKT 55	Advertising	3
BUSMKT 402	Introduction to Import/Export	3
BUSMKT 405	International Marketing	3

**Total units for the major** **29-33**

**Small Business Entrepreneur Certificate****Student Learning Outcomes:**

Upon the successful completion of this certificate, students shall:

1. Examine and consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of the functional areas of small business entrepreneurship.
3. Demonstrate the ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.

**Requirements for the Small Business Entrepreneur Level I Certificate****(Non-transcripted):**

[L390/99999/0506.40/52.0703]

ACCTGFS 450	Tax Preparation for Small Business	1.5
ACCTGFS 465	Financial Accounting for the Non-Accounting Major	3
BUS 430	Business Plan Preparation	1.5
BUSMGT 45	Small Business Ownership and Management	3

**Plus six units from the following:**

BUS 28A	Business Law I	3
BUS 28B	Business Law II	3
BUS 60	Business Ethics	3
BUS 61	Introduction to Global Business	3
BUSMGT 40	Introduction to Management	3
BUSMGT 42	Human Resource Management	3
BUSMKT 13	Professional Selling	3
BUSMKT 40	Marketing Principles	3
BUSMKT 55	Advertising	3
BUSMKT 402	Introduction to Import/Export	3

**Total units for the certificate** **15**



## BUSINESS - MARKETING

The Marketing Certificate prepares students for marketing and management training positions that require a working knowledge of marketing, advertising, and sales.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students shall:

1. Examine and consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of the functional areas of marketing.
3. Demonstrate the ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.

### Requirements for the Business Administration/Marketing Certificate

#### (Non-transcripted):

[L080/99999/0509.00/52.1801]

	Units
BUSMKT 13 Professional Selling	3
BUSMKT 40 Marketing Principles	3
BUSMKT 55 Advertising	3

#### Plus two courses from the following:

BUS 10 Introduction to Business	3
BUS 28A Business Law I	3
BUS 28B Business Law II	3
BUS 60 Business Ethics	3
BUS 61 Introduction to Global Business	3
BUS 435 The Law of Marketing and Business Competition	3
BUSMGT 40 Introduction to Management	3
BUSMGT 44 Introduction to Human Relations	3
BUSMGT 45 Small Business Ownership and Management	3

**Total units for the certificate 15**

## BUSINESS - MANAGEMENT

The Management concentration focuses on planning, organizing, leading, and controlling. The Management concentration prepares students for entry-level positions in Management and/or Human Resources. The Associate in Science in Business with a concentration in Management is designed for the student seeking a career in Management upon completion of the Associate Degree. This degree may also be appropriate for students planning to transfer to a four-year institution other than a California State University. Students intending to transfer should consult with a counselor to ensure that their education plan is consistent with this objective.

### Student Learning Outcomes:

Upon the successful completion of this degree, students shall:

1. Examine and consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of the functional areas of management.
3. Demonstrate the ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the finding.
5. Have examined a variety of general education subjects that enable them to better understand the broader world in which organizations operate.
6. Have examined core business concepts and built a broad foundation in Business and related topics.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

### Major requirements for the Associate in Science Degree: Units

[S285/04758/0506.00/52.0201]

#### Core courses (15-16 units)

ACCTG 1A Financial Accounting (or ACCTGFS 465, Financial Accounting for the Non-Accounting Major, 3)	4
BUS 10 Introduction to Business	3
BUS 28A Business Law I	3
BUS 60 Business Ethics	3
BUS 88 Business Communication	3

#### Required Courses for the Management Concentration (9):

BUSMGT 40 Introduction to Management	3
BUSMGT 42 Human Resource Management	3
BUSMGT 44 Introduction to Human Relations	3

#### Plus two courses from the following (5-7):

ACCTG 1B Managerial Accounting	4
BUS 28B Business Law II	3
BUS 49 Business Decisions Using Basic Quantitative Tools	3
BUS 61 Introduction to Global Business	3
BUSMGT 436 Introduction to Logistics Management	3
BUSMGT 440 Principles of Leadership	2
BUSMGT 460 Quality Management Principles	3
BUSMGT 480 Principles of Supervision	3
BUSMKT 40 Marketing Principles	3

**Total units for the major 29-32**

### Management Certificates

The Management Certificate programs prepare students for management and management training positions. It is also appropriate for students seeking further education to obtain career advancement.

#### Student Learning Outcomes:

Upon the successful completion of these certificates, students shall:

1. Examine and consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of the functional areas of management.
3. Demonstrate the ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.

### Requirements for the Management Level One Certificate Units

#### (Non-transcripted):

[L285/99999/0506.00/52.0201]

ACCTGFS 465 Financial Accounting for the Non-Accounting Major (or ACCTG 1A, Financial Accounting, 4)	3
BUS 10 Introduction to Business	3
BUS 28A Business Law I	3
BUSMGT 40 Introduction to Management	3
BUSMGT 44 Introduction to Human Relations	3

**Total units for the certificate 15-16**

The Management Certificate prepares students for management and management training positions. It is also appropriate for students seeking further education to obtain career advancement.

### Requirements for the Management Level Two Certificate:

[L286/20678/0506.00/52.0201]

BUSMGT 40 Introduction to Management	3
BUSMGT 42 Human Resource Management	3
BUSMGT 44 Introduction to Human Relations	3

**Plus nine units from the following:**

BUS 28A	Business Law I	3
BUS 28B	Business Law II	3
BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUS 60	Business Ethics	3
BUS 61	Introduction to Global Business	3
BUSMGT 11	Retail Merchandising and Management	3
BUSMGT 13	Supply Chain Management	3
BUSMGT 14	Transportation Management	3
BUSMGT 45	Small Business Ownership and Management	3
BUSMGT 430	Warehouse Management and Material Handling	3
BUSMGT 436	Introduction to Logistics Management	3
BUSMGT 440	Principles of Leadership	2
BUSMGT 460	Quality Management Principles	3
BUSMGT 480	Principles of Supervision	3
BUSMKT 13	Professional Selling	3
BUSMKT 40	Marketing Principles	3

**Total units for the certificate: 18**

## BUSINESS - LOGISTICS MANAGEMENT

The Logistics Management Programs prepare students for a career in the logistics industry. Students will gain a working knowledge of transportation, warehousing, and supply chain management in addition to the skills needed to efficiently operate a warehouse.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students shall:

1. Consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate the ability to work effectively as a member of a team.
3. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.
4. Have a basic understanding of different career opportunities in the field of logistics.
5. Have a working knowledge of transportation, warehousing, and supply chain management in addition to the skills needed to efficiently operate a warehouse.
6. Have examined a variety of general education subjects that enable them to better understand the broader world in which the logistics and distribution industry operates.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Science Degree:</b>		Units
[S289/16802/0510.00/52.0203]		
BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUS 88	Business Communication	3
BUSMGT 13	Supply Chain Management	3
BUSMGT 14	Transportation Management	3
BUSMGT 40	Introduction to Management	3
BUSMGT 430	Warehouse Management and Material Handling	3
BUSMGT 436	Introduction to Logistics Management	3
BUSMGT 440	Principles of Leadership	2
BUSMGT 480	Principles of Supervision	3

**Plus one course from the following:**

BUS 60	Business Ethics	3
BUSMGT 460	Quality Management Principles	3
BUSMKT 402	Introduction to Import/Export	3

**Total units for the major 29**

## Logistics Management Certificate

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students shall:

1. Consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate the ability to work effectively as a member of a team.
3. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.
4. Have a basic understanding of different career opportunities in the field of logistics.
5. Have a working knowledge of transportation, warehousing, and supply chain management in addition to the skills needed to efficiently operate a warehouse.

**Requirements for the Logistics Management Certificate:** Units

[L289/20683/0510.00/52.0203]		
BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUS 88	Business Communication	3
BUSMGT 13	Supply Chain Management	3
BUSMGT 14	Transportation Management	3
BUSMGT 40	Introduction to Management	3
BUSMGT 430	Warehouse Management and Material Handling	3
BUSMGT 436	Introduction to Logistics Management	3
BUSMGT 440	Principles of Leadership	2
BUSMGT 480	Principles of Supervision	3

**Plus one course from the following:**

BUS 60	Business Ethics	3
BUSMGT 460	Quality Management Principles	3
BUSMKT 402	Introduction to Import/Export	3

**Total units for the certificate 29**

## BUSINESS - RETAIL MANAGEMENT

Retail Management prepares students for employment in all aspects of retail store operations and management. Other career avenues are sales representatives for manufacturers, visual display, distribution, importing and exporting, and sales promotions. This program is also designed to give an understanding of the retail manager's role, and the requirements for success in the retail industry.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students shall:

1. Examine and consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of the functional areas of retail management encompassed under their degree program.
3. Demonstrate an ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.
5. Have examined a variety of general education subjects that enable them to better understand the broader world in which organizations operate.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Science Degree:</b> [S295/04759/0506.50/52.0212]		Units
ACCTGFS 465	Financial Accounting for the Non-Accounting Major	3
BUS 88	Business Communication	3
BUSMGT 11	Retail Merchandising and Management	3
BUSMGT 40	Introduction to Management	3
BUSMGT 42	Human Resource Management	3
BUSMGT 44	Introduction to Human Relations	3
BUSMKT 40	Marketing Principles	3
CIS 1	Introduction to Computer Information Systems	3
<b>Total units for the major</b>		<b>24</b>

### Retail Management Certificate

#### Student Learning Outcomes:

Upon the successful completion of this certificate, students shall:

1. Examine and consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of the functional areas of retail management encompassed under their certificate program.
3. Demonstrate an ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.

#### **Requirements for the Retail Management Certificate:**

[L295/20682/0506.50/52.0212]

Same as the major requirements for the A.S. Degree.

**Total units for the certificate** **24**

## BUSINESS - SUPERVISION

The Supervision Program is designed for aspiring, newly appointed, or practicing first-line supervisors who serve as links between middle management and operative employees. The program integrates new theories with current practices to facilitate practical as well as theoretical application of techniques necessary to the development of today's supervisor.

#### Student Learning Outcomes:

Upon the successful completion of this degree, students shall:

1. Examine and consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge of business and supervision.
3. Demonstrate the ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.
5. Have examined core business concepts and build a broad foundation in Business and related topics.
6. Have examined a variety of general education subjects that enable them to better understand the broader world in which organizations operate.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Science Degree:</b> [S410/14401/0506.30/52.0204]		Units
<b>Core courses (15-16 units)</b>		
ACCTG 1A	Financial Accounting (or ACCTGFS 465 Financial Accounting for the Non-Accounting Major, 3)	4
BUS 10	Introduction to Business	3
BUS 28A	Business Law I	3
BUS 60	Business Ethics	3
BUS 88	Business Communication	3

#### **Required courses for the Supervision Concentration (8 units)**

BUSMGT 40	Introduction to Management	3
BUSMGT 440	Principles of Leadership	2
BUSMGT 480	Principles of Supervision	3

#### **Plus two courses from the following:**

BUS 28B	Business Law II	3
BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUS 61	Introduction to Global Business	3
BUSMGT 11	Retail Merchandising and Management	3
BUSMGT 42	Human Resource Management	3
BUSMGT 44	Introduction to Human Relations	3
BUSMGT 460	Quality management Principles	3

**Total units for the major** **29-30**

### Supervision Certificates

#### Student Learning Outcomes:

Upon the successful completion of these certificates, students shall:

1. Examine and consider the social and/or ethical responsibilities of businesses and businesspersons.
2. Demonstrate a working knowledge business and supervision.
3. Demonstrate an ability to work effectively as a member of a team.
4. Demonstrate the ability to convey an idea orally or in writing so that the intended audience understands the idea. This shall include the ability to conduct business research, analyze, and interpret the findings.

#### **Requirements for the Supervision Level I Certificate**

**(Non-transcripted)** **Units**

[L411/99999/0506.30/52.0204]

BUSMGT 40	Introduction to Management	3
BUSMGT 44	Introduction to Human Relations	3
BUSMGT 440	Principles of Leadership	2
BUSMGT 480	Principles of Supervision	3

#### **Plus two courses from the following:**

BUS 28A	Business Law I	3
BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUS 61	Introduction to Global Business	3
BUS 88	Business Communication	3
BUSMGT 11	Retail Merchandising and Management	3
BUSMGT 42	Human Resource Management	3
BUSMGT 460	Quality Management Principles	3

**Total units for the certificate** **17**

#### **Requirements for the Supervision Level II Certificate:**

[L410/20679/0506.30/52.0204]

BUS 88	Business Communication	3
BUSMGT 40	Introduction to Management	3
BUSMGT 42	Human Resource Management	3
BUSMGT 44	Introduction to Human Relations	3
BUSMGT 440	Principles of Leadership	2
BUSMGT 480	Principles of Supervision	3
CIS 1	Introduction to Computer Information Systems	3
COMSTD 4	Fundamentals of Interpersonal Communication	3

#### **Plus two courses from the following:**

BUS 10	Introduction to Business	3
BUS 28A	Business Law I	3
BUS 28B	Business Law II	3
BUS 60	Business Ethics	3
BUS 61	Introduction to Global Business	3
CIS 68	Using the Internet	1.5

**Total units for the certificate** **27.5-29**

## BUSINESS - PARALEGAL STUDIES

The Paralegal Studies certificate program is intended to prepare students for employment as paralegals in various legal sectors. The American Bar Association (ABA) By-Laws, Section 21.12 uses the terms "paralegal" and "legal assistant" interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience, and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance under the direction and supervision of an attorney, of specifically delegated substantive legal work.

The Paralegal Studies certificate program emphasizes practical application and the development of up-to-date paralegal related job skills in addition to teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills. Graduates of the program will possess skills to enter the paralegal profession. It also allows those already in the paralegal line of work to improve their understanding of the paralegal profession.

California State statute requires all paralegals to be certified by an accredited educational institution. Chaffey College's Paralegal Studies certificate program meets and exceeds such mandates because Chaffey College is approved by the California Department of Education and the Western Association for Schools and Colleges, and the certificate is awarded to students who have successfully completed 27 semester units in law-related courses. Chaffey College's Paralegal Studies certificate program also exceeds the American Bar Association's guideline for paralegal educational requirement.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Produce professional quality documents of the type used in the legal profession.
2. Demonstrate competence and understanding of basic job skills to enter the paralegal profession.
3. Have a basic understanding of different career opportunities available in the business and legal sectors.
4. Demonstrate legal problem solving skills, supported by appropriate analytical and critical thinking techniques.
5. Demonstrate effective interpersonal communication and teamwork skills in a collaborative setting.

<b>Requirements for the Paralegal Studies Certificate:</b>		Units
[L400/17631/1402.00/22.0302]		
AJ 1	Introduction to the Criminal Justice System	3
BUS 28A	Business Law I	3
BUS 28B	Business Law II	3
BUS 410	International Business Law	3
BUSL 400	Introduction to Paralegal Studies	3
BUSL 401	Legal Research and Writing	3
BUSL 404	Law Office Operations	3
BUSPL 402	Civil Litigation	3
BUSPL 403	Evidence	3
<b>Total units for the certificate</b>		<b>27</b>

## BUSINESS AND OFFICE TECHNOLOGIES

The Business and Office Technologies program (1) prepares students for employment as office support personnel, administrative assistants, and office managers; (2) develops computer competencies for the workplace, educational advancement, and personal use; and (3) provides a foundation for developing workplace and lifelong learning, skills, and knowledge. The program offers Associate in Science Degrees, state-approved Certificates of Achievement, locally-approved Certificates of Career Preparation, and Proficiency Certificates.

### **Microsoft Excel**

The Microsoft Excel Certificate of Career Preparation offers in-depth competency in utilizing current business spreadsheet software to organize, manipulate, and graph numeric data. This program will prepare students for positions requiring expertise in the use of Microsoft Excel.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Use the features of spreadsheet software to create business documents.
2. Interpret data to create formulas for business calculations used in spreadsheets.
3. Integrate imported and exported data into charts, graphs, pivot tables and pivot charts.

<b>Requirements for the Microsoft Excel Certificate:</b>		Units
<i>(Non-transcripted)</i>		
[E355/99999/0514.00/52.0401]		
BUSOT 40A	Beginning Computer Keyboarding	3
BUSOT 63	Microsoft Office Excel – Comprehensive	3
BUSOT 64A	Microsoft Office Access – Specialist	1.5
BUSOT 452	Office Financial Recordkeeping (or ACCTG 1A, Financial Accounting, 4)	3

### *Plus three units from the following:*

BUSOT 60A	Microsoft Office Word – Specialist	3
BUSOT 61	Microsoft Office PowerPoint	1.5
BUSOT 64B	Microsoft Office Access – Expert	1.5
BUSOT 400	Job Search and Interviewing Techniques	1.5

**Total units for the certificate** **13.5-14.5**

### **Microsoft Office**

The Microsoft Office Certificate of Achievement program is designed to provide students with competencies in commonly-used business software application programs in the current electronic workplace, including word processing, spreadsheet applications, database management, presentations, contract management, and desktop publishing programs.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Apply effective work procedures and practices for maintaining a productive work environment
2. Proficiently use the features of spreadsheet, word processing, desktop publishing, presentation, contact management, and database application software.
3. Demonstrate skills to produce business communications and documents.



<b>Requirements for the Microsoft Office Certificate:</b> [L354/15318/0514.00/52.0401]		Units
BUSOT 40A	Beginning Computer Keyboarding (or BUSOT 40B, Computer Keyboarding: Speed and Accuracy Development)	3
BUSOT 60A	Microsoft Office Word – Specialist	3
BUSOT 60B	Microsoft Office Word – Expert	3
BUSOT 61	Microsoft Office PowerPoint	1.5
BUSOT 62	Microsoft Office Outlook	1.5
BUSOT 63	Microsoft Office Excel – Comprehensive	3
BUSOT 64A	Microsoft Office Access – Specialist	1.5
BUSOT 64B	Microsoft Office Access – Expert	1.5
BUSOT 400	Job Search and Interviewing Techniques	1.5
BUSOT 410A	Microsoft Office Publisher – Specialist	1.5
BUSOT 410B	Microsoft Office Publisher – Expert	1.5
BUSOT 455	Fundamentals of English for Business	3
<b>Total units for the certificate</b>		<b>25.5</b>

**Recommended:**

BUSOT 496ABCD Internships in Business and Office Technologies	1-4
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Plus a minimum keyboarding speed of 35 wpm for five minutes with five or fewer errors, as verified by the Business and Office Technologies Department Proficiency Certificate.

**Microsoft Word**

The Microsoft Word Certificate of Career Preparation offers in-depth competency in utilizing current business word processing software. This certificate prepares students for employment in positions requiring expertise in Microsoft Word.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Proofread, edit, and produce effective business documents.
2. Proficiently use the features of word processing application software to create a variety of business documents.
3. Apply effective work procedures and practices for maintaining a productive work environment.

**Requirements for the Microsoft Word Specialist Certificate (Non-transcripted):**

[L352/99999/0514.00/52.0401]		Units
BUSOT 40A	Beginning Computer Keyboarding	3
BUSOT 60A	Microsoft Office Word – Specialist	3
BUSOT 60B	Microsoft Office Word – Expert	3
BUSOT 455	Fundamentals of English for Business	3

**Plus one course from the following:**

BUSOT 40B	Computer Keyboarding: Speed and Accuracy Development	3
BUSOT 400	Job Search and Interviewing Techniques	1.5
BUSOT 460	Proofreading: Text-Editing Skills	3

**Total units for the certificate** **13.5-15**

**Professional Administrative Assistant**

The Professional Administrative Assistant Associate Degree and Certificate of Achievement programs prepare students for careers with a full range of office and administrative duties. Administrative Assistants have opportunities for promotions to positions of greater responsibility and management. Emphasis on developing professional skills for today's workplace: computer applications competencies and office technologies, records management, communication skills, and interpersonal skills.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Proofread, edit, and produce effective business communications.
2. Proficiently use the features of spreadsheet, word processing, desktop publishing, presentation, contact management, and database application software to compile effective, credible, and relevant oral and written business communications.
3. Apply effective office procedures and practices for maintaining a productive work environment.
4. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

**Major requirements for the Associate in Science Degree:**

[S316/07372/0514.00/52.0401]		Units
BUSOT 40B	Computer Keyboarding: Speed and Accuracy Development	3
BUSOT 50	Filing and Records Management	3
BUSOT 60B	Microsoft Office Word – Expert	3
BUSOT 63	Microsoft Office Excel – Comprehensive	3
BUSOT 64B	Microsoft Office Access – Expert	1.5
BUSOT 400	Job Search and Interviewing Techniques	1.5
BUSOT 452	Office Financial Recordkeeping	3
BUSOT 455	Fundamentals of English for Business	3
BUSOT 460	Proofreading: Text-Editing Skills	3
BUSOT 462	Machine Transcription and Voice Recognition Software	3
BUSOT 465	Speedwriting and Notetaking	3
BUSOT 470	Office Systems and Procedures	3

**Plus three or four units from the following:**

BUSOT 61	Microsoft Office PowerPoint	1.5
BUSOT 62	Microsoft Office Outlook	1.5
BUSOT 410A	Microsoft Office Publisher – Specialist	1.5
BUSOT 410B	Microsoft Office Publisher – Expert	1.5
BUSOT 471	Administrative Office Management	3
BUSOT 475	Medical Office Procedures	3
BUSOT 496ABCD Internships in Business and Office Technologies		1-4

Plus a minimum keyboarding speed of 40 wpm for five minutes verified by the Business and Office Technologies Department Proficiency Certificate.

**Total units for the major** **36-37**

**Professional Administrative Assistant Certificate****Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Proofread, edit, and produce effective business communications.
2. Proficiently use the features of spreadsheet, word processing, desktop publishing, presentation, contact management, and database application software to compile effective, credible, and relevant oral and written business communications.
3. Apply effective office procedures and practices for maintaining a productive work environment.

**Requirements for the Professional Administrative Assistant Certificate:**

[L325/20685/0514.00/52.0401]

Same as the major requirements for the A.S. Degree.

**Total units for the certificate** **36-37**

## Professional Office Management

The Professional Office Management Associate Degree and Certificate of Achievement programs prepare students for business office careers, including those in middle/administrative management. Students develop abilities that create opportunities for promotions, job transitions, and positions of greater responsibility in the workplace. Emphasis on supervision, leadership, and interpersonal skills.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Apply efficient work procedures and practices for maintaining a productive work environment.
2. Apply effective office management supervisory functions including planning, leading, organizing, and controlling.
3. Proficiently use the features of spreadsheet, word processing, desktop publishing, presentation, contact management, and database application software.
4. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Science Degree:</b>		Units
[S321/04761/0514.40/52.0204]		
BUSOT 40A	Beginning Computer Keyboarding (or BUSOT 40B, Computer Keyboarding: Speed and Accuracy Development)	3
BUSOT 60A	Microsoft Office Word – Specialist (or BUSOT 60B, Microsoft Office Word – Expert)	3
BUSOT 61	Microsoft Office PowerPoint	1.5
BUSOT 62	Microsoft Office Outlook	1.5
BUSOT 63	Microsoft Office Excel – Comprehensive	3
BUSOT 64A	Microsoft Office Access – Specialist	1.5
BUSOT 400	Job Search and Interviewing Techniques	1.5
BUSOT 455	Fundamentals of English for Business	3
BUSOT 460	Proofreading: Text-Editing Skills	3
BUSOT 471	Administrative Office Management	3
<b>Total units for the major</b>		<b>33</b>

### Plus nine units from the following:

BUSOT 60B	Microsoft Office Word – Expert (if not used above)	3
BUSOT 64B	Microsoft Office Access – Expert	1.5
BUSOT 410A	Microsoft Office Publisher – Specialist	1.5
BUSOT 410B	Microsoft Office Publisher – Expert	1.5
BUSOT 452	Office Financial Recordkeeping	3
BUSOT 462	Machine Transcription and Voice Recognition Software	3
BUSOT 465	Speedwriting and Notetaking	3
BUSOT 470	Office Systems and Procedures	3
BUSOT 475	Medical Office Procedures	3

**Total units for the major** **33**

Plus a minimum keyboarding speed of 40 wpm for five minutes, as verified by the Business and Office Technologies Department Proficiency Certificate.

## Professional Office Management Certificate

The Professional Office Management Associate Degree and Certificate of Achievement programs prepare students for business office careers, including those in middle/administrative management. Students develop abilities that create opportunities for promotions, job transitions, and positions of greater responsibility in the workplace. Emphasis on supervision, leadership, and interpersonal skills.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Apply efficient work procedures and practices for maintaining a productive work environment.
2. Apply effective office management supervisory functions including planning, leading, organizing, and controlling.
3. Proficiently use the features of spreadsheet, word processing, desktop publishing, presentation, contact management, and database application software.

<b>Requirements for the Professional Office Management Certificate:</b>		Units
[L321/20690/0514.40/52.0204]		
BUSOT 40A	Beginning Computer Keyboarding (or BUSOT 40B, Computer Keyboarding: Speed and Accuracy Development)	3
BUSOT 60A	Microsoft Office Word – Specialist (or BUSOT 60B, Microsoft Office Word – Expert)	3
BUSOT 61	Microsoft Office PowerPoint	1.5
BUSOT 62	Microsoft Office Outlook	1.5
BUSOT 63	Microsoft Office Excel – Comprehensive	3
BUSOT 64A	Microsoft Office Access – Specialist	1.5
BUSOT 400	Job Search and Interviewing Techniques	1.5
BUSOT 455	Fundamentals of English for Business	3
BUSOT 460	Proofreading: Text-Editing Skills	3
BUSOT 471	Administrative Office Management	3

### Plus nine to ten units from the following:

BUSOT 60B	Microsoft Office Word – Expert (if not used above)	3
BUSOT 64B	Microsoft Office Access – Expert	1.5
BUSOT 410A	Microsoft Office Publisher – Specialist	1.5
BUSOT 410B	Microsoft Office Publisher – Expert	1.5
BUSOT 452	Office Financial Recordkeeping	3
BUSOT 462	Machine Transcription and Voice Recognition Software	3
BUSOT 465	Speedwriting and Notetaking	3
BUSOT 470	Office Systems and Procedures	3
BUSOT 496ABCD	Internships in Business and Office Technologies	1-4

**Total units for the certificate** **33-34**

Plus a minimum keyboarding speed of 40 wpm for five minutes, as verified by the Business and Office Technologies Department Proficiency Certificate.

## CALIFORNIA STATE UNIVERSITY - GENERAL EDUCATION (CSU-GE)

The CSU-GE Certificate of Achievement is designed for students who plan to transfer to one of the campuses of the California State University. Completion of courses for this certificate will assist students to transfer without the need to take additional lower-division general education courses to satisfy university general education requirements.

Each candidate for the bachelor's degree from a CSU institution shall complete a pattern of general education courses which totals a minimum of 48 semester units. Chaffey may certify a maximum of 39 semester units toward meeting this requirement; the remaining 9 semester units must be completed at the CSU at the upper-division level. **Full general education certification from Chaffey College requires a minimum of 39 units distributed as follows:**

<b>AREA A</b>	9 units required
<b>AREAS B, C, &amp; D</b>	9 units is required in each area
<b>AREA E</b>	3 units required

To meet the CSU-GE Breadth Certification requirements, courses in Areas A1, A2, A3, and B4 must be completed with a grade of C or better. Each course may be used in only one area of CSUGE certification and must be on the approved list in the year completed. **To earn this Chaffey CSU-GE certificate, all courses must be completed with a C or better.**

**Student Learning Outcomes:**

Upon the successful completion of these programs, students should be able to:

1. Demonstrate effective communication and comprehension skills.
2. Demonstrate critical thinking skills in problem solving across the disciplines and in daily life.
3. Demonstrate knowledge of significant social, cultural, environmental and aesthetic perspectives.
4. Assess their knowledge, skills and abilities; set personal, educational and career goals; work independently and in group settings; demonstrate computer literacy; and cultivate self-reliance, financial literacy and physical, mental and social health.

**Requirements for the CSUGE Certificate:**

[T001/30503/4901.10/24.0101]

Units

**AREA A ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING (Minimum 9 units) 9****A1 Oral Communication (one course)**

Communication Studies 2, 4, 6, 8

**A2 Written Communication (required)**

English 1A

**A3 Critical Thinking (one course)**

Communication Studies 72

English 1B

Philosophy 75, 76

**AREA B SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING 9**

(Minimum 9 units) Choose at least one course from each category.

At least one of the physical science or life science courses must have a laboratory.

**B1 Physical Science**

Astronomy 26, 35

Chemistry 7, 8, 9, 10, 12\*, 24A, 24B, 70, 75A, 75B

Earth Science 1, 1&1L, 5, 5 & 5L

Geography 4, 4 & 5, 6<sup>∞</sup>

Geology 1, 2

Physical Science 10

Physics 5, 5 & 6, 20A, 20B, 30A, 30B, 44\*, 45, 46, 47

**B2 Life Science**

Anthropology 1, 1&1L

Biology 1, 2, 3, 10, 12, 20, 22, 23, 23 & 23L, 61, 62, 63

Geography 6

**B3 Laboratory Activity** This requirement is satisfied by completion of any course in B1 or B2 with a laboratory. Those courses are underlined.**B4 Mathematics**

Mathematics 3, 4, 25, 31, 60, 61, 65A, 65B, 75, 81#, 85

Social Science 10

Statistics 10

**AREA C ARTS AND HUMANITIES 9**

(Minimum 9 units) Choose at least one course from each category.

**C1 Arts**

Art 10, 12, 14, 16, 18, 20, 44

Art History 1, 3, 5, 7, 9, 11

Cinema 25, 26

Communication Studies 14

Dance 1

Fashion Design 20, 45

Interior Design 11, 12

Music 2A, 2B, 4, 5, 6, 21, 22<sup>X</sup>, 26

Photography 1, 10

Theatre Arts 1, 4, 5, 10, 12

**C2 Humanities**

American Sign Language 1#, 2, 3, 4

Arabic 1, 2, 3, 4

Chinese 1, 2, 3, 4, 18

English 1C, 32, 33, 68, 70A, 70B, 71, 74, 75A, 75B, 76, 77, 79, 80A, 80B, 81

French 1, 2

History 1, 2, 4#, 7, 12, 16#, 20, 21<sup>∞</sup>, 25, 37, 40<sup>X</sup>

Humanities 5, 6, 20

Philosophy 70, 72, 73, 77, 78, 80, 81, 82

Spanish 1, 2, 3, 3SS, 4, 4SS, 8, 13, 14

**AREA D SOCIAL SCIENCES 9**

(Minimum 9 units) Choose courses from at least two categories.

**D0 Child Development 4**

Communication Studies 12

Correctional Science 5<sup>∞</sup>

Gerontology 18

Sociology 10, 14, 15<sup>∞</sup>, 16\*, 18, 70

**D1 Anthropology 2, 3****D2 Economics 1, 2, 4****D3 Child Development 6**

Communication Studies 74

Correctional Science 8<sup>∞</sup>

History 4#, 12, 16#, 19, 50, 51, 70, 71

Political Science 25

Sociology 15<sup>∞</sup>, 25

**D4 Communication Studies 76**

Sociology 14

**D5 Geography 1, 3, 10, 11<sup>X</sup>****D6 Economics 8**

History 1, 2, 4#, 5, 6, 7, 9, 10, 12, 16, 17, 18,

20, 21<sup>∞</sup>, 37, 40<sup>X</sup>, 50, 51, 70, 71

**D7 American Sign Language 18**

Communication Studies 78

Gerontology 11

History 19

Political Science 3<sup>+</sup>

Sociology 26

**D8 Administration of Justice 1#**

Correctional Science 8<sup>∞</sup>

Political Science 1, 2, 3<sup>+</sup>, 4, 7, 10, 21<sup>+</sup>, 25, 32<sup>+</sup>

**D9 Child Development 2**

Gerontology 22, 23

Psychology 1, 20, 21, 25, 65

**AREA E LIFELONG LEARNING AND SELF-DEVELOPMENT 1 3**

(Minimum 3 units)

Biology 14

Child Development and Education 2<sup>∞</sup>

Gerontology 22

Guidance 3

Kinesiology Lecture 15

Nutrition and Food 5, 15, 22

Psychology 5, 25

Social Science 17

Sociology 16

**Total units for the certificate**

**39**

**CSU REQUIREMENT** - The State Requirement in U.S. HISTORY, CONSTITUTION AND AMERICAN IDEALS may be met by completion of History 17 or 18 or 37 and Political Science 1.

# = Course must be completed Fall 2003 or later.

∞ = Course must be completed Spring 2005 or later.

∞ = Course must be completed Fall 2005 or later.

X = Course must be completed Spring 2006 or later.

• = Course must be completed Spring 2007 or later.

^ = Course must be completed Fall 2010 or later.

∞ = Course must be completed Fall 2011 or later.

+ = Course must be completed Fall 2012 or later.

1 = Veterans may meet Area E requirements via DD-214.

**COURSES COUNT IN ONE AREA ONLY.**



## CHEMISTRY

Chemistry is the science of matter, its characterization, composition, and its transformations. It is a vital, growing enterprise as opposed to a mere accumulation of knowledge. An understanding of chemistry is basic to the physical and biological sciences and fundamental in a variety of occupations. Specialized fields of chemistry are inorganic, organic, physical, nuclear, biochemistry, and chemical engineering. Chaffey College offers the first two years of the baccalaureate degree chemistry curriculum.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Apply critical thinking, hypothesis driven methods of scientific inquiry, and the mathematical skills to calculations and problem solving, predicting mechanisms, developing synthetic schemes, scientific data presented in literature, and evaluation of empirically developed data.
2. Apply chemical and physical concepts, symbolism, language, atomic structure and use of periodic table to describe the changes that matter undergoes and the application of chemistry.
3. Apply experimental techniques to the laboratory environment as demonstrated by safe handling and disposal of chemicals, obtaining accurate and precise data, evaluating and validating scientific data, correctly using scientific instruments, and using proper laboratory etiquette.
4. Provide technical information in a clear and concise manner to demonstrate effective written and oral communication skills for chemical and physical concepts, results of laboratory experiments, and articles in the scientific literature.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

Major requirements for the Associate in Science Degree:		Units
[S085/04808/1905.00/40.0501]		
CHEM 24A	General Chemistry I	5
CHEM 24B	General Chemistry II	5
CHEM 75A	Organic Chemistry I	5
CHEM 75B	Organic Chemistry II	5
MATH 65A	Calculus I	4
MATH 65B	Calculus II	4
PHYS 45	Physics for Scientists and Engineers I	5
PHYS 46	Physics for Scientists and Engineers II	5
<b>Total units for the major</b>		<b>38</b>



## CHILD DEVELOPMENT - EARLY CHILDHOOD EDUCATION ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science for Early Childhood Education for Transfer (AS-T) degree is designed to prepare students for transfer into the California State University (CSU) system to complete a baccalaureate in Early Childhood Education or similar major. The Early Childhood Education degree is in alignment with Chaffey College's mission, goals and objectives, is directed towards the appropriate level for community colleges, adheres to the academic rigor expected of the first two years of college, and reflects systematic instruction as guided by student learning outcomes that gauge mastery in the relevant knowledge, skills and abilities expected within the field of Early Childhood Education.

The goals and outcomes for the Early Childhood Education major include the following:

1. Prepare students for seamless transfer to a CSU to complete a baccalaureate degree.
2. Prepare students for advanced studies within the field of Early Childhood Education.

The AS-T in Early Childhood Development is a degree suited to the needs of students who will complete their education at Chaffey College with an A.S. degree, as well as those students who will complete their Chaffey A.S. degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Early Childhood Education guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in Child Development, Child and Adolescent Development, Human Development, and Education.

To obtain the Early Childhood Education AS-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Design and demonstrate developmentally appropriate early childhood curriculum that supports children's cognitive, language, creative, physical, social and emotional growth.
2. List, describe and interpret NAEYC quality standards for early childhood programs.
3. Describe the importance of play.

### Major requirements for the Associate in Science Transfer (AS-T) Degree Units [S091/31999/1305.00/19.0709]

#### Required:

CDE 1	Principles and Practices in Early Childhood Education	3
CDE 2	Child Growth and Development	3
CDE 3	Observation and Assessment	3
CDE 4	Child, Family and Community	3
CDE 5	Health, Safety and Nutrition	3
CDE 6	Teaching in a Diverse Society	3
CDE 24	Introduction to Curriculum Theory	2
CDE 24W	Practicum I: Supervised Occupational Work Experience	1
CDE 25	Advanced Curriculum Theory	2
CDE 25W	Practicum II: Supervised Occupational Work Experience	1

<b>Units for the Major</b>	<b>24</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>36</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## CHILD DEVELOPMENT

The Child Development A.S. degree prepares students to be competent, effective teachers and caregivers in settings for young children where specific skills and knowledge are required to effectively address the multitude of teaching and caregiving tasks. Included are courses on child growth and development, child/family systems, current practices in brain research and its application to classroom teaching, working with children with special needs, and the importance of play in learning and curriculum development. Additionally, the Math/Science and Creative Arts courses offer "hands on" knowledge and skills in curriculum/lesson plan implementation, and a student teaching practicum connects discipline theory to practical application. This program's component courses satisfy the State Commission on Teacher Credentialing for the Child Development Associate Teacher and Teacher permits required for employment in both the private and public sector in California.

This degree is primarily targeted to students who will meet their educational and career goals with an associate degree. Students planning to transfer to the California State University (CSU) system in pursuit of a bachelor's degree are advised to follow the Early Childhood Education Associate in Science for Transfer (AS-T) degree program.



**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Design and demonstrate developmentally appropriate early childhood curriculum that supports children's cognitive, language, creative, physical, social, and emotional growth.
2. List, describe, and interpret NAEYC quality standards for early childhood programs.
3. Describe the importance of play.
4. Translate current brain research into appropriate early childhood classroom practice.
5. Recognize professional and legal best practices in dealing with children with special needs.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Science Degree:</b>		Units
[S090/04797/1305.00/19.0709]		
CDE 2	Child Growth and Development	3
CDE 4	Child, Family and Community	3
CDE 7	Curriculum Development: The Creative Arts	3
CDE 8	Curriculum Development: Math and Sciences	3
CDE 23	Introduction to Children with Special Needs	3
CDE 24	Introduction to Curriculum Theory	2
CDE 24W	Practicum I: Supervised Occupational Work Experience	1
CDE 415	Dynamics of Play	3
CDE 416	Brain Research and Implications for Classroom Teaching	3
<b>Total units for the major</b>		<b>24</b>

**CHINESE STUDIES**

The Chinese Studies program offers students a strong foundation in communicative skills and provides students with the opportunity to transfer to a variety of liberal arts, language arts, and linguistics bachelor degree programs. In addition, majoring in Chinese Studies provides students with the language skills necessary for various professions in healthcare, law enforcement, public safety, education, government, translation/interpretation, business, international relations, and hotel and food services. Chinese study also affords new perspective on the world and one's mother tongue.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Demonstrate familiarity with the geography of the countries and regions where Chinese is spoken.
2. Demonstrate familiarity with important cultural issues related to the Chinese-speaking world.
3. Successfully engage in basic conversation strategies in Chinese.
4. Recognize and write frequently used simplified Chinese characters.
5. Spell in Chinese using pinyin.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Arts Degree:</b>		Units
[A404/31877/1107.00/16.0301]		
CHIN 1	Elementary Mandarin Chinese	4
CHIN 2	Elementary Mandarin Chinese	4
CHIN 3	Intermediate Mandarin Chinese I	4
CHIN 4	Intermediate Mandarin Chinese II	4
CHIN 18	Chinese Civilization and Culture	3
<b>Plus two courses from the following:</b>		
ARTH 11	Survey of Asian Arts	3
ENGL 74	Asian-American Literature	3
HIST 10	History of Asian Civilizations II	3
<b>Total units for the major</b>		<b>25</b>

**COMMUNICATION STUDIES  
ASSOCIATE IN ARTS FOR TRANSFER**

The Communication Studies Associate in Arts for Transfer degree is an interdisciplinary area of inquiry with a foundation in tradition rhetoric and contemporary social-scientific theories of human communication. A series of core courses is designed to provide students with the background needed to explore any of several fields in depth. Currently, these areas are public communication, leadership and group communication, and interpersonal/organizational communication. The curriculum is intended for students who wish to develop a fundamental understanding and knowledge of the functions of communication in their daily life and in the fabric of society.

The program is suited to the needs of students who will complete their education at Chaffey College with an A.A. degree, as well as those students who will complete their Chaffey A.A. degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Communication Studies guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of business, industry, government, social service, and/or education in such areas as teaching, public speaking, consulting, law, announcing and public relations.

To obtain the Communication Studies Associate in Arts for Transfer degree, students must:

- Complete all the major requirements listed below with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU-GE) or the Intersegmental General Education Transfer Curriculum (IGETC).

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Conceive, develop, and deliver a focused, cogent, and clear oral presentation.
2. Demonstrate the ability to critically listen and analyze speech performances for their logical soundness, elements of proof and delivery.
3. Select and employ appropriate and effective communication skills for the contexts and/or situations in which they find themselves.

**Major requirements for the Associate in Arts Transfer (AA-T) Degree:** Units  
[A096/30702/1506.00/09.0101]

**Core (3 units)**

COMSTD 2	Fundamentals of Effective Speaking	3
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**List A - Any 2 courses (6 units)**

COMSTD 4	Fundamentals of Interpersonal Communication	3
COMSTD 6	Fundamentals of Small Group Communication	3
COMSTD 72	Logic and Argumentation	3

**List B - Any 2 courses (6 units)**

Any List A courses not used above, and/or:

COMSTD 12	Mass Communication and Society	3
COMSTD 14	Oral Interpretation of Literature	3
COMSTD 74	Intercultural Communication	3

**List C - Any 1 course (3-4 units)**

Any List A and List B courses not used above, and/or:

ANTHRO 3	Introduction to Social and Cultural Anthropology	3
COMSTD 8	Fundamentals of Speech Communication	3
COMSTD 76	Gender and Communication	3
COMSTD 78	Family Communication	3
JOUR 10	Newsriting	3
PHOTO 10	Beginning Photography	4
PSYCH 1	Introduction to Psychology	3
SOC 10	Introduction to Sociology	3

<b>Units for the major</b>	<b>18-19</b>
<b>plus CSU General Education or IGETC Pattern</b>	<b>39-42</b>
<b>plus transfer-level course electives (as needed)</b>	<b>0-3</b>
<b>Total Units</b>	<b>60</b>

## COMPUTER INFORMATION SYSTEMS

The Computer Information Systems program is designed to (1) prepare students for the employment market at the entry level in computer and information technology in all sizes and types of organizations, (2) provide a foundation for those students who plan to complete a four-year program in computer information systems or related fields of study, and (3) upgrade current skills to facilitate assumption of assume greater responsibility in a current employment position. This major prepares students for Information Technology careers in networking, hardware support, programming, Internet and Web development, game development, or other emerging technologies depending on the courses selected.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate the use, synthesis, and application of computer and information technology skills required to assume an entry-level position in all sizes and types of organizations.
2. Demonstrate the use, synthesis, and application of computer and information technology skills required to upgrade current skills to assume greater responsibility in a current or new employment position.
3. Demonstrate the use, synthesis, and application of computer and information technology skills required to transfer to a four-year college or university program in Computer Information Systems or related majors.
4. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

Major requirements for the Associate in Science Degree:		Units
[S100/04765/0702.00/11.0103]		
CIS 1	Introduction to Computer Information Systems	3
CIS 4	Fundamentals of Microsoft Windows	1.5
CIS 50	Introduction to Computer Networks	3
CIS 68	Using the Internet	1.5
CISPROG 1	Introduction to Computer Programming	3
CISIWEB 72	Web Page Development and Publishing	3

### Plus a minimum of 17.5 units from the following:

#### General:

CIS 15	Microsoft Access Database Design and Development	3
CIS 420	Computer Security Basics	1.5
CIS 431	Project Management for Information Technology	3
CIS 435	Fundamentals of Microsoft Visio	1.5

#### Cisco Internetworking:

CISCO 1	Cisco Internetworking I	4
CISCO 2	Cisco Internetworking II	4
CISCO 3	Cisco Internetworking III	4
CISCO 4	Cisco Internetworking IV	4
CISCO 415	Cisco Internetworking V	4
CISCO 416	Cisco Internetworking VI	4
CISCO 417	Cisco Internetworking VII	4
CISCO 418	Cisco Internetworking VIII	4
CISCO 419	Cisco Internetworking IX	4
CISCO 420	Cisco Internetworking X	4

#### Game Development:

CISGAME 401	Fundamentals of Game Development I	1.5
CISGAME 402	Fundamentals of Game Development II	3
CISGAME 403	Fundamentals of Game Programming	3
CISGAME 420	Mobile/Web Game Development	3

#### Hardware and Support:

CISHDSP 401	Microcomputer Hardware	3
CISHDSP 405	A+ Certification Preparation	1.5

#### Internet and Web Development:

CISIWEB 414	Creating Dynamic Web Content Using Javascript/AJAX	3
CISIWEB 424	WordPress Web Development	1.5
CISIWEB 436	Web Development: PHP/MySQL	3
CISIWEB 438	Web Development: Ruby on Rails	1.5

#### Networking:

CISNTWK 11	Microsoft Network Server	3
CISNTWK 413	TCP/IP	1.5
CISNTWK 440	Introduction to Network Security Administration	3

#### Programming:

CISPROG 3	Fundamentals of Visual Basic Programming	3
CISPROG 403	Advanced Visual Basic Programming	3

#### Computer Science:

COMPSCI 1	Programming Concepts and Methodology I	3
COMPSCI 2	Programming Concepts and Methodology II	3
COMPSCI 3	Computer Architecture and Organization	3

**Total units for the major 32.5**

## COMPUTER INFORMATION SYSTEMS CERTIFICATE PROGRAMS

### Computer Game Development

The Computer Game Development Certificate sets the foundation for a career in game development with the introduction of the programming and graphic elements of the field.

#### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Compare and contrast the use of tools and languages for game development.
2. Describe the process of game development from concept to production.
3. Create a working game.

#### Requirements for the Computer Game Development Certificate: (Non-transcripted)

[E124/99999/0707.10/11.0201]		Units
CIS 1	Introduction to Computer Information Systems	3
CISGAME 401	Fundamentals of Game Development I	1.5
CISGAME 402	Fundamentals of Game Development II	3
CISGAME 403	Fundamentals of Game Programming	3
CISGAME 420	Mobile/Web Game Development	3

**Total units for the certificate 13.5**

### Computer Information Systems

The Computer Information Systems certificate program is designed to prepare students for the employment market at the entry level in computer and information technology in all sizes and types of organizations and/or upgrade existing skills to assume greater responsibility in a current employment position. Prepares students for Information Technology careers in networking, hardware support, programming, Internet and Web development, game development, or other emerging technologies depending on the courses selected.

#### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate the use, synthesis, and application of computer and information technology skills required to assume an entry-level position in all sizes and types of organizations.
2. Demonstrate the use, synthesis, and application of computer and information technology skills required to upgrade current skills to assume greater responsibility in a current or new employment position.
3. Demonstrate the use, synthesis, and application of computer and information technology skills required for employment.

<b>Requirements for the Computer Information Systems Certificate:</b>		Units
[L100/20697/0702.00/11.0103]		
CIS 1	Introduction to Computer Information Systems	3
CIS 4	Fundamentals of Microsoft Windows	1.5
CIS 50	Introduction to Computer Networks	3
CIS 68	Using the Internet	1.5
CISPROG 1	Introduction to Computer Programming	3
CISIWEB 70	Creating Web Pages with HTML	1.5

**Plus a minimum of 17.5 units from the following:**

**General:**

CIS 15	Microsoft Access Database Design and Development	3
CIS 420	Computer Security Basics	1.5
CIS 431	Project Management for Information Technology	3
CIS 435	Fundamentals of Microsoft Visio	1.5

**Cisco Internetworking:**

CISCO 1	Cisco Internetworking I	4
CISCO 2	Cisco Internetworking II	4
CISCO 3	Cisco Internetworking III	4
CISCO 4	Cisco Internetworking IV	4
CISCO 415	Cisco Internetworking V	4
CISCO 416	Cisco Internetworking VI	4
CISCO 417	Cisco Internetworking VII	4
CISCO 418	Cisco Internetworking VIII	4
CISCO 419	Cisco Internetworking IX	4
CISCO 420	Cisco Internetworking X	4

**Game Development:**

CISGAME 401	Fundamentals of Game Development I	1.5
CISGAME 402	Fundamentals of Game Development II	3
CISGAME 403	Fundamentals of Game Programming	3
CISGAME 420	Mobile/Web Game Development	3

**Hardware and Support:**

CISHDSP 401	Microcomputer Hardware	3
CISHDSP 405	A+ Certification Preparation	1.5

**Internet and Web Development:**

CISIWEB 410	WebMaster Tools	1.5
CISIWEB 414	Creating Dynamic Web Content Using Javascript/AJAX	3
CISIWEB 436	Web Development: PHP/MySQL	3
CISIWEB 438	Web Development: Ruby on Rails	1.5

**Networking:**

CISNTWK 11	Microsoft Network Server	3
CISNTWK 413	TCP/IP	1.5
CISNTWK 440	Introduction to Network Security Administration	3

**Programming:**

CISPROG 3	Fundamentals of Visual Basic Programming	3
CISPROG 403	Advanced Visual Basic Programming	3

**Computer Science:**

COMPSCI 1	Programming Concepts and Methodology I	3
COMPSCI 2	Programming Concepts and Methodology II	3
COMPSCI 3	Computer Architecture and Organization	3

**Total units for the certificate** **31**

**Computer Support Technician (A+ Certification Preparation)**

The Computer Support Technician Certificate prepares students for positions in industry supporting microcomputer users in hardware and software areas, and to take the Comp TIA A+ certification examination administered by an outside agency.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate the knowledge required to assemble computer components based on customer requirements; install, configure and maintain mobile devices, PCs and software for end users; properly and safely diagnose, resolve and document common hardware and software issues while applying troubleshooting skills required in an entry-level IT position.
2. Demonstrate appropriate end-user support through engaging end users on a professional basis, using proper communication skills, and providing appropriate solutions based on the end user's needs as required in an entry-level IT position.
3. Demonstrate the knowledge and skills to configure, maintain, and troubleshoot network devices using appropriate network tools; be familiar with common protocols and media types; and understand the features and purpose of network technologies required in an entry-level IT position.

**Requirements for the Computer Support Technician (A+) Certificate: (Non-transcripted)** Units

[L106/99999/0708.20/11.1006]		
CIS 1	Introduction to Computer Information Systems	3
CIS 4	Fundamentals of Microsoft Windows	1.5
CIS 50	Introduction to Computer Networks	3
CIS 68	Using the Internet	1.5
CISHDSP 401	Microcomputer Hardware	3
CISHDSP 405	A+ Certification Preparation	1.5

**Total units for the certificate** **13.5**

**Network Specialist**

The demand for networking professionals to administer and support computer networks far exceeds the supply. The Network Specialist Certificate enables students to acquire networking skills applicable to organizations of all sizes, and prepare for the CompTIA and Server+ examinations administered by an outside agency.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Analyze, apply, implement, and support multiple industry standard operating systems in enterprise networking environments.
2. Apply networking concepts to design, implement and maintain LANs and WANs to support modern implementations including internetworking.
3. Define and manage network services for effective network performance.
4. Troubleshoot computer-networking infrastructures to resolve user problems.

**Requirements for the Network Specialist Certificate:** Units

[L475/15535/0708.10/11.0901]		
CIS 1	Introduction to Computer Information Systems	3
CIS 4	Fundamentals of Microsoft Windows	1.5
CIS 50	Introduction to Computer Networks	3
CIS 68	Using the Internet	1.5
CIS 435	Fundamentals of Microsoft Visio	1.5
CISHDSP 401	Microcomputer Hardware	3
CISNTWK 11	Microsoft Network Server	3
CISNTWK 413	TCP/IP	1.5
CISNTWK 440	Introduction to Network Security Administration	3

**Total units for the certificate** **21**

## Project Management

The Project Management certificate prepares students for positions requiring the efficient management of information technology projects in organizations, with respect to software, planning, time, costs, and other factors.

### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Demonstrate the use, synthesis, and application of tools and techniques needed to work in a project management environment.
  2. Run projects on time and under budget with standard, industry-recognized processes.
  3. Problem solve and communicate professionally and appropriately for the field of project management.

<b>Requirements for the Project Management Certificate:</b>		Units
<i>(Non-transcripted)</i>		
[E127/99999/0702.10/11.0601]		
CIS 1	Introduction to Computer Information Systems	3
CIS 68	Using the Internet	1.5
CIS 431	Project Management for Information Technology	3
CIS 435	Fundamentals of Microsoft Visio	1.5
<b>Total units for the certificate</b>		<b>9</b>

## Web Page Developer, Level One

The Web Page Developer Level One certificate prepares students for entry-level positions developing internet and intranet web pages.

### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Develop planning documents based on analysis, mission, goals, and purpose of a proposed website.
  2. Develop, create, and publish accessible Web pages with text, images, links, tables, frames, forms, interactivity, and multimedia components using the principles of HTML and CSS.

<b>Requirements for the Web Page Developer Level One Certificate:</b>		Units
<i>(Non-transcripted)</i>		
[L108/99999/0709.00/11.1004]		
CIS 1	Introduction to Computer Information Systems	3
CIS 68	Using the Internet	1.5
CISIWEB 72	Web Page Development and Publishing	3
CISIWEB 424	WordPress Web Development	1.5
<b>Total units for the certificate</b>		<b>9</b>

## Web Page Developer, Level Two

The Web Page Developer Level Two certificate prepares students for advanced positions developing internet and intranet web pages, and for applications - such as electronic commerce - that require programming skills.

### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Develop planning documents based on analysis, mission, goals, and purpose of a proposed Website.
  2. Develop, create, and publish accessible Web pages with text, images, links, tables, frames, forms, interactivity, and multimedia components using the principles of HTML and CSS.
  3. Analyze and use scripting languages in the development of dynamic Web pages.
  4. Develop database-driven Web sites.

<b>Requirements for the Web Page Developer Level Two Certificate:</b>		Units
<i>(Non-transcripted)</i>		
[L109/99999/0709.00/11.1004]		
Level One certificate or the courses required to complete the Level One certificate, <b>plus:</b>		9
CISIWEB 414	Creating Dynamic Web Content using Javascript/AJAX	3
CISIWEB 436	Web Development: PHP/MySQL (or CISIWEB 438, Web Development: Ruby on Rails, 1.5)	3
<b>Total units for the certificate</b>		<b>13.5-15</b>

## COMPUTER INFORMATION SYSTEMS CISCO CERTIFICATE PROGRAMS

### Cisco CCNA Examination Preparation, Levels I-IV

The Cisco CCNA Examination Preparation Certificates, Levels I-IV, confirm that the student possesses the industry-recognized knowledge and skills required for completion of each level in a four-course sequence. In completing the sequence, the student is qualified to take the Cisco CCNA examination, which is administered by an outside agency.

#### Cisco CCNA Exam Prep Level I Certificate

##### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Exhibit apprentice analysis and apprentice knowledge of Cisco Internetworking.
  2. Make an Ethernet straight cable according to IEE and Cisco standards.
  3. Use "Telnet" to connect to another device in a network.

<b>Requirements for the Cisco CCNA Examination Preparation Level I Certificate</b>		Units
<i>(Non-transcripted):</i>		
[L451/99999/0708.10/11.0901]		
CIS 1	Introduction to Computer Information Systems	3
CISCO 1	Cisco Internetworking I	4
<b>Total units for the certificate</b>		<b>7</b>

#### Cisco CCNA Exam Prep Level II Certificate

##### Student Learning Outcomes:

- Upon the successful completion of this certificate, students should be able to:
1. Exhibit apprentice analysis and apprentice knowledge of Cisco Internetworking.
  2. Select an appropriate routing protocol for a given network.
  3. Configure a (Virtual Terminal) VTY and Secret password on a router.

<b>Requirements for the Cisco CCNA Examination Preparation Level II Certificate</b>		Units
<i>(Non-transcripted):</i>		
[L452/99999/0708.10/11.0901]		
Level I Certificate, or CISCO 1 or equivalent, <b>plus:</b>		0-7
CISCO 2	Cisco Internetworking II	4
<b>Total units for the certificate</b>		<b>4-11</b>



## Cisco CCNA Exam Prep Level III Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Exhibit apprentice analysis and apprentice knowledge of Cisco Internetworking.
2. Configure inter VLAN routing in a network (Virtual LAN's).
3. Set up route aggregation (summarize) using variable length subnet masks (VLSM).

### Requirements for the Cisco CCNA Examination Preparation Level III Certificate (Non-transcripted):

[L453/99999/0708.10/11.0901]	Units
Level II Certificate, or CISCO 2 or equivalent, <i>plus:</i>	0-11
CISCO 3 Cisco Internetworking III	4

**Total units for the certificate 4-15**

## Cisco CCNA Exam Prep Level IV Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Exhibit apprentice analysis and apprentice knowledge of Cisco Internetworking.
2. Set up a Frame Relay circuit between two routers.
3. Configure a (Point-to-Point) PPP link in a wide area network (WAN).

### Requirements for the Cisco CCNA Examination Preparation Level IV Certificate:

[L454/15533/0708.10/11.0901]	Units
Level III Certificate, or CISCO 3 or equivalent, <i>plus:</i>	0-15
CISCO 4 Cisco Internetworking IV	4

**Total units for the certificate 4-19**

## Cisco CCNP Examination Preparation, Levels V-IX

Cisco professionals design, build, and maintain computer networks that use Cisco software and hardware to form the networking and Internet foundations for business and government agencies worldwide. The Cisco Certified Network Professional (CCNP) Examination Preparation Certificates Levels V-IX confirms that the student possesses the industry-recognized knowledge and skills required for each of the CCNP components. Upon successful completion of all five levels (taken in any sequence), the student is qualified to take the Cisco CCNP examination which is administered by an outside agency.

## Cisco CCNP Exam Prep Level V Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Exhibit professional analysis and professional knowledge of Cisco Internetworking.
2. Set up an IPV6 addressing scheme in a network.
3. Set up a route map.

### Requirements for the Cisco CCNP Examination Preparation Level V Certificate:

[L455/15534/0708.10/11.0901]	Units
CISCO 4 or equivalent, or passing the Cisco CCNA examination, <i>plus:</i>	0-19
CISCO 415 Cisco Internetworking V	4

**Total units for the certificate 4-23**

## Cisco CCNP Exam Prep Level VI Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Exhibit professional analysis and professional knowledge of Cisco Internetworking.
2. Know how to configure a queuing policy on a router.
3. Know how to configure MPLS (Multiprotocol Label Switching) on a router.

### Requirements for the Cisco CCNP Examination Preparation Level VI Certificate:

[L456/15534/0708.10/11.0901]	Units
CISCO 4 or equivalent, or passing the Cisco CCNA examination <i>plus:</i>	0-23
CISCO 416 Cisco Internetworking VI	4

**Total units for the certificate 4-27**

## Cisco CCNP Exam Prep Level VII Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Exhibit professional analysis and professional knowledge of Cisco Internetworking.
2. Configure inter VLAN trunking (Virtual LAN's).
3. Configure Hot Standby Routing protocol (HSRP).

### Requirements for the Cisco CCNP Examination Preparation Level VII Certificate:

[T457/15534/0708.10/11.0901]	Units
CISCO 4 or equivalent, or passing the Cisco CCNA examination, <i>plus:</i>	0-27
CISCO 417 Cisco Internetworking VII	4

**Total units for the certificate 4-31**

## Cisco CCNP Exam Prep Level VIII Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Exhibit professional analysis and professional knowledge of Cisco Internetworking.
2. Know how to implement Cisco Auto QoS on a Cisco router.
3. Know how to construct redundancy on Layer 1.

### Requirements for the Cisco CCNP Examination Preparation Level VIII Certificate:

[T458/15534/0708.10/11.0901]	Units
CISCO 4 or equivalent, or passing the Cisco CCNA examination, <i>plus:</i>	0-31
CISCO 418 Cisco Internetworking VIII	4

**Total units for the certificate 4-35**

## Cisco CCNP Exam Prep Level IX Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Exhibit professional analysis and professional knowledge of Cisco Internetworking.
2. Know how to monitor and maintain complex, enterprise routed, and switched IP networks.
3. Analyze "Wireshark" information to properly troubleshoot a network.

### Requirements for the Cisco CCNP Examination Preparation Level IX Certificate:

[T459/31470/0708.10/11.0901]	Units
CISCO 4 or equivalent, or passing the Cisco CCNA examination, <i>plus:</i>	0-35
CISCO 419 Cisco Internetworking IX	4

**Total units for the certificate 4-39**



## COMPUTER SCIENCE ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science for Transfer (AS-T) degree in Computer Science prepares students for transfer to four-year colleges and universities for upper-division coursework in the study of information systems, their representation, architecture, and implementation. Computer Science is the study of the methods by which data is accessed, stored and retrieved, including representational computation, programming languages, algorithmic modeling, and software design, testing and development. Student in the Computer Science program study and apply their knowledge of mathematics, physics and logic to solve a variety of problems using current technology. Coursework includes programming languages and concepts, systems analysis, mathematics, physics, computer hardware and data structures.

The program is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four-year institution to complete their bachelor's degree. Successful completion of the Associate in Science in Computer Science for Transfer guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in preparation to pursue a career in the field of computer science.

The goals and outcomes for the Computer Science for Transfer major include the following:

1. Prepares students for seamless transfer to a CSU to complete a Computer Science Baccalaureate degree.
2. Provides students with a core body of knowledge in computer science, with advanced topics that provide a breadth of knowledge, build on the core, and expose students to current and emerging technologies and trends in computing and information technology.
3. Prepares students for advanced studies within the field of computer science.

To obtain the Computer Science AS-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course. "P" (pass) grades are not acceptable for courses in the major.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) **OR** the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Evaluate basic theories of software design and operation, project management, databases, and computer architecture.
2. Express and implement algorithms using a variety of notation, programming languages, and paradigms.
3. Assess computer science solutions/information systems and debug computer programs.
4. Demonstrate the knowledge and skills necessary for transfer to four-year college or university programs in Computer Science.
5. Demonstrate the knowledge and skills necessary for an entry-level employment in the field of computer science.

**Major requirements for the Associate in Science for Transfer Degree** Units  
[S103/32748/0706.00/11.0701]

### Required (30 units):

COMPSCI 1	Programming Concepts and Methodology I	3
COMPSCI 2	Programming Concepts and Methodology II	3
COMPSCI 3	Computer Architecture and Organization	3
MATH 3	Discrete Mathematics	3
MATH 65A	Calculus I	4
MATH 65B	Calculus II	4
PHYS 45	Physics for Scientists and Engineers I	5
PHYS 46	Physics for Scientists and Engineers II	5

### Units for the Major

<b>Units for the Major</b>	<b>30</b>
<b>Units that may be double-counted</b>	<b>7</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>37</b>
<b>plus transfer-level course electives (as needed)</b>	<b>0</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## CORRECTIONAL SCIENCE

This major offers the following: (1) pre-employment education for positions in the correctional sciences field; (2) upgrading for in-service personnel; (3) a certificate program; (4) an Associate in Science Degree; and (5) a transfer program for those who wish to obtain a four-year degree in the major, or allied fields, such as criminology, corrections, social services, behavioral science, or criminal justice.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Analyze complex situations, employ a reasonable plan for resolution and devise methods for appraisal of desired outcomes as they apply to correctional science.
2. Differentiate between the roles and responsibilities of each component of the Criminal Justice system.
3. Explain the significance of the Due Process Clause in Corrections as provided by the Constitution of the United States.
4. Relate their understanding of Corrections to difficulties in society, based on factors from the neighborhood, the home, and the individual.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

**Major requirements for the Associate in Science Degree:** Units  
[S105/04811/2105.10/43.0102]

CRSCI 1	Introduction to Corrections	3
CRSCI 2	Control and Supervision of Inmates	3
CRSCI 3	Correctional Law	3
CRSCI 5	Crime and Delinquency	3
CRSCI 6	Correctional Interviewing and Counseling	3
CRSCI 8	Ethnic Group Relations	3

### Plus three courses from the following:

AJ 1	Introduction to the Criminal Justice System	3
AJ 2	Concepts of Criminal Law	3
AJ 3	Criminal Court Process	3
AJ 4	Community and the Justice System	3
AJ 5	Legal Aspects of Evidence	3
CRSCI 4	Public Relations and Corrections	3
CRSCI 7	Probation and Parole	3
CRSCI 10	Violence in America	3
CRSCI 409	Women and the Criminal Justice System	3
CRSCI 410	Street Gangs and Subcultures	3
CRSCI 411	Juvenile Corrections	3
CRSCI 450	Correctional Report Writing	3

**Total units for the major** **27**

## Correctional Science Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate critical thinking skills necessary for employment in the field of Corrections.
2. Demonstrate professional communication skills necessary for employment in the field of Corrections.
3. Demonstrate ethical behavior necessary for employment in the field of Corrections.
4. Demonstrate problem solving skills necessary for employment in the field of Corrections.

### Requirements for the Correctional Science Certificate:

[L105/20738/2105.10/43.0102]

Same as the major requirements for the A.S. Degree.

**Total units for the certificate** **27**

## CULINARY ARTS

(See also Hospitality Management)

Students who earn the Culinary Arts Certificate are prepared for entry-level employment opportunities in the food service industry. The certificate emphasizes basic preparation, production, and sanitation standards involved in food production.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate the ability to work as an effective member of a team.
2. Perform a sequence of tasks assigned by a chef or food service supervisor that utilize industry practices.
3. Perform food preparation following the required sanitation and safety standards.
4. Demonstrate the proper equipment and facility sanitation required for cleanup.
5. Develop the capacities of analysis, critical reflection and problem solving skills to anticipate the needs of food service operations.
6. Communicate effectively with fellow workers, supervisors and guests.

### Requirements for the Culinary Arts Certificate:

[L255/07398/1306.30/12.0500]

	Units
HOTFS 10 Introduction to Hospitality Management	3
HOTFS 14 Quantity Food Production Management	3
HOTFS 17 Principles of Food Preparation	3
HOTFS 18 Sanitation, Safety and Equipment Management	2
HOTFS 21 Purchasing, Cost Controls and Menu Planning	3
HOTFS 22 Restaurant and Catering Operations	3
HOTFS 32 Hospitality Law	3
HOTFS 428 Human Resource Management	3
HOTFS 436A Culinary Arts I	2
HOTFS 436B Culinary Arts II	2
HOTFS 437 Principles of Baking	2
HOTFS 482 Industry Internship: Hotel and Food Service Management	1

**Total units for the certificate** **30**

## DANCE

The Chaffey College Dance program provides a two-year program of academic study and training in dance for students pursuing an Associate of Arts degree in Dance and/or transferring to a four-year university or other institution, as well as preparation for careers in the commercial dance field or related fields. The wide-ranged curricula, providing a practical and theoretical dance foundation, offers professional technical training, choreographic inquiry and study, performance/production opportunities, and historical and cultural studies of dance. The series of core courses and electives, including dance history and appreciation, ballet, modern, jazz, and tap techniques, ballroom dance forms, hip hop/commercial dance, as well as movement for the stage, provides foundational training and skills for further study of dance and preparation for careers in dance or dance-related fields. For students emphasizing choreography and/or performance, the program also provides artistic development and training through improvisational and compositional studies, and dance performance and repertory studies. The main stage dance concerts and musicals, informal performances, and technical coursework provide opportunities for students to experience the creative process as part of their course of study. Critical thinking, problem solving, and expressive communication competencies through dance study, and the conceptual and physical application of dance training will enable the dance student to extend knowledge and skills to numerous subject areas and fields of study. These areas include teaching careers for those desiring to be instructors in public schools (K-12), private studios, health and fitness gyms and spas, special and adult education programs, day care centers, and recreation programs; performance-related careers in theatrical, television, and film production as performers and choreographers; dance administration, public relations, and arts council; dance therapy; dance critic, historian, and researcher; stage manager; events coordinator; and designer.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Differentiate between dance as a theatrical art and social form throughout history through technical skills development in the studio and critical thinking development through dance historical and theoretical analysis.
2. Develop and exhibit dance technical skills and styles within a wide spectrum of dance forms while applying embodied knowledge of the mechanical principles of physical movement in performance for an expressive, communicative purpose.
3. Exhibit improved poise, self-confidence, strength, flexibility, coordination, body awareness and control, rhythmic awareness, as well as collaborative problem solving and diversity awareness through technical skills, acquired style, and performance/choreographic skills.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

### Major requirements for the Associate in Arts Degree:

	Units
[A115/04781/1008.00/50.0301]	
DANCE 1 Survey of Dance	3
DANCE 7A Ballet IA	1
DANCE 7B Ballet IB	1
DANCE 8A Ballet IIA	1
DANCE 8B Ballet IIB	1
DANCE 10A Jazz Dance IA	1
DANCE 10B Jazz Dance IB	1
DANCE 20A Modern Dance IA	1
DANCE 20B Modern Dance IB	1
DANCE 30A Tap Dance IA	1
DANCE 40A Modern Dance IIA	1
DANCE 40B Modern Dance IIB	1
DANCE 50A Jazz Dance IIA	1
DANCE 50B Jazz Dance IIB	1
DANCE 400 Hip Hop Dance	1
DANCE 420 Social Dance	1

**Plus one course from the following:**

DANCE 30B	Tap Dance IB	1
THEATRE 10	Beginning Acting	3

**Plus one course from the following:**

DANCE 42	Dance Production I	3
THEATRE 50	Main Stage Production Workshop I	3

**Plus two courses from the following:**

DANCE 2	Theatrical Dance (also available as THEATRE 2)	3
DANCE 44	Dance Production II	3
DANCE 60A	Tap Dance IIA	1
DANCE 60B	Tap Dance IIB	1
THEATRE 12	Intermediate Acting	3

**Total units for the major** **24-30**

## DENTAL ASSISTING

The Dental Assisting Program is accredited by the Commission on Dental Accreditation and Dental Board of the State of California. The program features full-time, part-time, and fast-track schedules. The full-time schedule is completed in one year. The part-time schedule must be completed within three years of continuous enrollment. The fast-track schedule is completed in a shorter time depending on student and clinical availability.

Students receive a comprehensive education including dental sciences, hands-on practice laboratory, dental radiation safety certification, coronal polishing and sealant certificates, clinical experience in a community dental practice, state-of-the-art technology, dental business management preparation, and familiarity with dental specialty practices.

Students completing the program are eligible to take the Dental Assisting National Board Examination Certified Dental Assistant (CDA) as well as the Registered Dental Assistant Examination (RDA).

Graduates are eligible for employment in private dental practices, clinics, and hospitals as assistants, technicians, and dental practice management positions.

**Notes:**

1. High school graduation, pass the GED test, or pass the High School Proficiency examination, or have associates degree or higher. International transcripts must have AERC, IERF or approved agency evaluation.
2. All courses required for the degree major or certificate must be completed with a minimum grade of C.
3. Before entering the preclinical portion of the Dental Assisting Program, students must pass a health examination as evidence of good mental and physical health, and must have a current cardiopulmonary resuscitation (CPR) card.
4. The college does not provide transportation to clinical facilities.
5. Courses taken to meet Dental Hygiene transfer program prerequisites or other accredited Dental Assisting program courses may satisfy certain Dental Assisting course work. Consult with your counselor or the Dental Assisting Program Coordinator.
6. Part-time Dental Assisting program may be taken while meeting Dental Hygiene transfer program prerequisites.
7. Some courses may be taken during the student's senior year in high school. Consult with your counselor or the Dental Assisting Program Coordinator.
8. The Dental Assisting Program must be completed within a three year period.
9. Applicants with a record of any felony are subject to review by the Dental Board of California before becoming licensed by the state of California.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Obtain employment in the dental profession or continue their education towards a degree.
2. Critically think, apply, and anticipate needs within dental applications and procedures.
3. Pass the Registered Dental Assistant (RDA) examination.
4. Give back to the community as a representative of a dental professional through membership in professional organization(s) and/or participation in Advisory Committee activities in the Chaffey College Dental Assisting program.
5. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

**Major requirements for the Associate in Science Degree:**

	Units	
[S120/04791/1240.10/51.0601]		
DENTAL 400	Dental Assisting Core Sciences	6
DENTAL 410	Dental Assisting Preclinical Sciences	6
DENTAL 420	Radiography for Dental Assistants	6
DENTAL 430	Clinical Practice	6

**Total units for the major** **24**

### Dental Assisting Certificate

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Obtain employment in the dental profession or continue their education towards a degree.
2. Critically think, apply, and anticipate needs within dental applications and procedures.
3. Pass the Registered Dental Assistant (RDA) examination.
4. Give back to the community as a representative of a dental professional through membership in professional organization(s) and/or participation in Advisory Committee activities in the Chaffey College Dental Assisting program.

**Requirements for the Dental Assisting Certificate:**

[T120/20723/1240.10/51.0601]

Same as the major requirements for the A.S. Degree

**Total units for the certificate** **24**

## DIETETIC SERVICE SUPERVISOR

(See also *Hospitality Management, and Nutrition and Food*)

This program, approved by the California State Department of Health, prepares students for entry level management in a food service department in health care, community care, or school food service organizations, including entry levels of supervision. The program fulfills the federal and state training regulations for positions in general acute-care hospitals, acute psychiatric hospitals, skilled nursing facilities, and intermediate/residential-care facilities.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Be prepared to seek and obtain entry-level management positions in a food service department.
2. Effectively communicate and implement ethical decision making as part of a health care team.
3. Design meal plans and employ food preparation and storage techniques in accordance with federal and state guidelines.



<b>Requirements for the Dietetic Service Supervisor Certificate:</b> [L256/07389/1306.20/19.0505]		Units
HOTFS 14	Quantity Food Production Management	3
HOTFS 17	Principles of Food Preparation	3
HOTFS 18	Sanitation, Safety and Equipment Management	2
NF 11	Food Service Management Supervision	3
NF 15	Nutrition I: The Science of Nutrition	3
NF 19	Nutrition II: Modified Diets	3
NF 471	Dietetic Service Supervisor I	1
NF 471L	Dietetic Service Supervisor I: Supervised Clinical Laboratory	2
NF 472	Dietetic Service Supervisor II	1
NF 472L	Dietetic Service Supervisor II: Supervised Clinical Laboratory	2
<b>Total units for the certificate</b>		<b>23</b>

## DRAFTING

The drafting program degrees and certificates provide the basic knowledge and skills in drafting, mathematics, art, and related scientific and engineering areas to prepare students for employment in the manufacturing and architectural industries. Each program focuses on the skills necessary to be successful and gain employment in related fields. Computer aided drafting (CAD) will be used to complete the required work in most of the classes.

Courses designed to fulfill major requirements for an Associate in Science Degree from Chaffey College are not the same as those required for completing the major at a transfer institution offering a baccalaureate degree. Students who intend to transfer to a four-year college or university in any major should consult the catalog of the appropriate transfer institution and a Chaffey College counselor to develop a preferred plan of study.

### Drafting Technician: Architectural

The architectural drafting technician curriculum prepares students for employment as entry level architectural drafting aids, building designer of residences, detailer, designer, and CAD operators. Graduates of the program may find work in offices of architects, structural engineers, mechanical engineers, and other related industries.

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Effectively express information regarding drafting/design activities and topics through speaking, writing, producing drawings and diagrams, using digital media and other appropriate modes of communication/expression.
2. Demonstrate knowledge and technical competency in applied architectural drafting practice.
3. Demonstrate mastery of the application of modern CAD software tools in the production of technical documents that comply with current industry accepted drafting standards and practices.
4. Demonstrate an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity and work effectively in teams.
5. Demonstrate an understanding of the need for and an ability to engage in self-directed life-long learning, especially concerning maintenance and improvement of technical skills.
6. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Science Degree:</b> [S125/04774/0953.10/15.1303]		Units
DRAFT 20	Computer-Aided Drafting and Design	4
DRAFT 21	Mechanical Design I	3
DRAFT 50	Architectural Design I	3
DRAFT 51	Architectural Design II	3
DRAFT 53	Architectural Applications of CAD	4
DRAFT 452	Light Commercial Construction Design	3
EGTECH 10	Introduction to Engineering Design	4
ID 12	History of Western Architecture and Interiors II	3
<b>Total units for the major</b>		<b>27</b>

#### Required General Education courses:

ART 12	Fundamentals of Design in Three Dimensions	4
PHYS 5	The Ideas of Physics	3
PHYS 6	The Ideas of Physics Laboratory (or any advanced course in physics with a laboratory)	1

### Drafting Technician: Architectural Certificate

#### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Effectively express information regarding drafting/design activities and topics through speaking, writing, producing drawings and diagrams, using digital media and other appropriate modes of communication/expression.
2. Demonstrate knowledge and technical competency in applied architectural drafting practice.
3. Demonstrate mastery of the application of modern CAD software tools in the production of technical documents that comply with current industry accepted drafting standards and practices.
4. Demonstrate an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity and work effectively in teams.
5. Demonstrate an understanding of the need for and an ability to engage in self-directed life-long learning, especially concerning maintenance and improvement of technical skills.

#### Requirements for Drafting Technician: Architectural Certificate:

[L125/20714/0953.10/15.1303]

Same as the major requirements for the A.S. Degree and general education requirements, **plus:**

COOPED 497ABCD, General Work Experience (any combination to equal 3 units)	3
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**Total units for the certificate** **38**

### Drafting Technician: Mechanical

The mechanical drafting technician program provides the fundamental knowledge and skills in drafting. The curriculum is designed for students seeking employment in the following fields: aerospace, civil, electronics, mechanical, structural steel, technical illustration, tool design, piping, sheet metal layout, and other related industries.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Effectively express information regarding drafting/design activities and topics through speaking, writing, producing drawings and diagrams, using digital media and other appropriate modes of communication/expression.
2. Demonstrate knowledge and technical competency in applied mechanical drafting practice.
3. Demonstrate mastery of the application of modern CAD software tools in the production of technical documents that comply with current industry accepted drafting standards and practices.
4. Demonstrate an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity and work effectively in teams.
5. Demonstrate an understanding of the need for and an ability to engage in self-directed life-long learning, especially concerning maintenance and improvement of technical skills.
6. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Science Degree:</b>		Units
[S135/07382/0953.40/15.1306]		
DRAFT 20	Computer-Aided Drafting and Design	4
DRAFT 21	Mechanical Design I	3
DRAFT 41	Computer-Aided Drafting and Design: Mechanical	4
DRAFT 43	Advanced CAD Modeling and Applications	3
DRAFT 78	Advanced Design Applications	4
EGTECH 10	Introduction to Engineering Design	4
EGTECH 16	Computer Integrated Manufacturing – CNC Material Removal	3
<b>Total units for the major</b>		<b>25</b>

**Required General Education courses:**

PHYS 5	The Ideas of Physics	3
PHYS 6	The Ideas of Physics Laboratory	1
(or any advanced course in physics with a laboratory)		

**Drafting Technician: Mechanical Certificate****Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Effectively express information regarding drafting/design activities and topics through speaking, writing, producing drawings and diagrams, using digital media and other appropriate modes of communication/expression.
2. Demonstrate knowledge and technical competency in applied mechanical drafting practice.
3. Demonstrate mastery of the application of modern CAD software tools in the production of technical documents that comply with current industry accepted drafting standards and practices.
4. Demonstrate an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity and work effectively in teams.
5. Demonstrate an understanding of the need for and an ability to engage in self-directed life-long learning, especially concerning maintenance and improvement of technical skills.

**Requirements for Drafting Technician: Mechanical Certificate:**

[L135/20715/0953.40/15.1306]	
Same as the major requirements for the A.S. Degree and general education requirements, <b>plus:</b>	29
COOPED 497ABCD, General Work Experience) (any combination to equal 3 units)	3
<b>Total units for the certificate</b>	<b>32</b>

**CAD/CAM Operator**

Computer-Aided Drafting/Computer-Aided Manufacturing (CAD/CAM) certificate students have learned to operate current industry-standard software used in mechanical design and manufacturing. This includes 2D and 3D modeling, as well as using models designed in these programs as the basis for CNC tool-path generation for part fabrication. Students will also have a fundamental understanding of drafting practices and standards and material removal manufacturing processes.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Employ critical thinking skills that apply drafting standards and practices in the work place.
2. Demonstrate professional career skills employing drafting standards and practices in the workplace.
3. Communicate professionally in the work place.

**Requirements for the CAD/CAM Operator Certificate:**

<b>(Non-transcripted)</b>		Units
[E128/99999/0953.00/15.1301]		
DRAFT 20	Computer-Aided Drafting and Design	4
DRAFT 21	Mechanical Design I	3
DRAFT 43	Advanced CAD Modeling and Applications	3
EGTECH 10	Introduction to Engineering Design	4
EGTECH 16	Computer Integrated Manufacturing – CNC Material Removal	3
<b>Total units for the certificate</b>		<b>17</b>

**EARTH SCIENCE**

(See also Geology)

Earth Science is the application of many sciences to the understanding of the Earth. While it is often used as a synonym for geology, traditionally Earth Science encompasses a wider range of scientific inquiry including oceanography, meteorology, planetology, and soil sciences. Today's Earth Science has expanded to include environmental studies as applied to the physical world.

The curriculum is designed to provide the fundamental knowledge and skills to prepare students for transfer to a university as a junior. This is a two-year program leading to an Associate in Science Degree. Students following this program will be well suited to pursue an advance degree in Earth Science, Environmental Science, or any related science. This program is equally intended to assist those who wish to teach Earth Science in elementary or secondary schools, those interested in understanding environmental issues, or those who desire an understanding of the Earth.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Explain and apply the scientific method to earth science processes.
2. Define and explain major concepts in earth sciences such as plate tectonics.
3. Demonstrate their ability to understand and critically review earth science news as reported in the popular press.
4. Use scientific experiments and investigations to demonstrate an understanding of earth science.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Science Degree:</b> [S140/07392/1930.00/40.0601]		Units
ASTRON 35	Planets and the Solar System with Lab (or ASTRON 26, Stars and Galaxies, 3)	4
CHEM 9	Health Science Chemistry	5
ESC 5	Oceanography	3
ESC 5L	Oceanography Laboratory	1
GEOL 1	Physical Geology	4
GEOL 2	Historical Geology	4

**Plus one course from the following:**

BIOL 1	General Biology	4
BIOL 3	California Natural History	4
BIOL 61	Introduction to Cell and Molecular Biology	5
BIOL 62	Biology of Organisms	5

**Total units for the major** **24-26**

**Required General Education courses:**

ENGL 1A	Composition	3
ESC 1	Earth Science	3
MATH 31	Plane Trigonometry (or higher-level math)	4



## ECONOMICS ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Economics for Transfer enables students to understand the world in a more analytical way, particularly clarifying the process of decision making. Whenever choices are made between alternative activities — for example, a business decision to hire more workers or, instead, buy a new machine — there will be an impact. Each alternative has associated costs and benefits. Economics teaches us how to analyze the costs and benefits so that we can make more intelligent choices. Economics also addresses the impact of decisions upon equity (fairness), particularly as measured by the distribution of wealth and income. Studying economics is excellent preparation for a career in law, industry, banking, accounting, private consulting, teaching, and government service. Because we encounter economic problems in all areas of our lives and throughout society, economics provides useful intellectual training for individuals who simply wish to become better educated prior to making a lifelong career decision.

This degree differs from the Economics AA degree in that the AA-T degree in Economics requires courses in calculus and statistics. The AA-T in Economics will better prepare students for the rigors of upper division and graduate level courses in economics at the many universities that emphasize the mathematical approach to economics. Additionally, this degree will better prepare students for employment in areas requiring mathematical and statistical skills, e.g. actuarial science, forensics economists, cost estimating, claims adjusting, management, advertising and marketing, and data collection for various government and private sector entities.

The program is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and transfer to a four-year institution to complete their bachelor's degree. Successful completion of the Associate in Arts in Economics for Transfer degree guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree.

The goals and outcomes for the Economics for Transfer major include the following:

1. Prepares students for seamless transfer to a CSU to complete an Economics Baccalaureate degree.
2. Provides students with a core body of knowledge in the study of Economics, with a firm foundation in calculus.
3. Prepares students for advanced studies within the field of Economics.

To obtain the Economics AA-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course. "P" (pass) grades are not acceptable for courses in the major.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Successfully complete upper division coursework in the discipline of Economics upon transfer to a CSU.
2. Identify the three macroeconomic goals and determine economic policies to achieve them.
3. Explain how deviations from the optimal output level might occur including an analysis of the impact of taxes, externalities, and price controls by correctly applying these issues to the demand and supply model.
4. Apply marginal benefit marginal opportunity cost analysis to economic decisions made by individuals, households, businesses, and/or governments.
5. Determine the type of industrial organization/market structure by analyzing the characteristics of an industry to determine its degree of competition.

**Major requirements for the Associate in Arts for Transfer Degree** [A146/33201/2204.00/45.0601] **Units**

**Required (14 units):**

ECON 2	Principles of Macroeconomics	3
ECON 4	Principles of Microeconomics	3
MATH 60	Calculus for Business (or MATH 65A, Calculus I)	4
STAT 10	Elementary Statistics (or SCSCI 10, Statistics for Social Science)	4

**List A: Select one (3-4 units)**

ACCTG 1A	Financial Accounting	4
ACCTG 1B	Managerial Accounting	4
BUS 88	Business Communication	3
CIS 1	Introduction to Computer Information Systems	3
MATH 65B	Calculus II	4

**List B: Select one (3-5 units)**

Any List A course not used above, or		Units
ECON 1	Introduction to Economics (or ECON 8, History of Economic Ideas)	3
MATH 75	Calculus III	5
MATH 81	Linear Algebra	4

**Units for the Major** **20-23**

**Units that may be double-counted** **9-12**

**plus CSU General Education-Breadth or IGETC Pattern** **37**

**plus transfer-level course electives (as needed)** **9-15**

**Total Units Required for Degree** **60**

## ECONOMICS

This discipline enables students to understand the world in a much better way, particularly clarifying the process of decision making. Whenever people, business, or their representatives make a choice between alternative activities — for example, a business decision to hire more workers or, instead, buy a new machine — there will be an impact. Each alternative has associated costs and benefits. Economics teaches us how to analyze the costs and benefits so that we can make more intelligent choices. Economics also addresses the impact of decisions upon equity (fairness), particularly as measured by the distribution of wealth and income.

Studying economics is an excellent preparation for a career in law, industry, banking, accounting, private consulting, teaching, and government service. Because we encounter economic problems in all areas of our lives and throughout society, economics provides useful intellectual training for individuals who simply wish to become better educated prior to making a lifelong career decision.

This degree differs from the Economics AA-T in that the Economics AA does not require calculus and statistics, thus enabling a more diverse student population to major in economics at the AA level, and at the BA level at several 4-year institutions.

**Student Learning Outcomes:**

- Upon the successful completion of this degree, students should be able to:
1. Identify the three macroeconomic goals and determine economic policies to achieve them.
  2. Explain how deviations from the optimal output level might occur including an analysis of the impact of taxes, externalities, and price controls by correctly applying these issues to the demand and supply model.
  3. Apply marginal benefit marginal opportunity cost analysis to economic decisions made by individuals, households, businesses, and/or governments.
  4. Determine the type of industrial organization/market structure by analyzing the characteristics of an industry to determine its degree of competition.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Art Degree:</b> [A145/04815/2204.00/45.0601]	Units
ECON 2 Principles of Macroeconomics	3
ECON 4 Principles of Microeconomics	3

**Plus six units from the following:**

ECON 8 History of Economic Ideas	3
BUS 61* Introduction to Global Business	3
PHIL 75* Symbolic Logic	3
PHIL 76* Critical Thinking	3

**Plus a minimum of 15 units from the following, including courses from at least three different disciplines:**

Accounting 1A	15
Accounting and Financial Services 465	
Anthropology 3	
Business 10, 28A, 49, 60, 61*, 410	
Communication Studies 72	
Computer Information Systems 1	
Economics 1, 8*	
Geography 1, 10	
History 2, 6, 17, 18, 20	
Mathematics 65A	
Philosophy 70, 75*, 76*	
Political Science 1, 2, 7, 10	
Psychology 65	
Real Estate 60	
Social Science 10 (or Statistics 10)	
Sociology 10	

**Total units for the major** **27**

\* course may be counted only once.

## EDUCATION PARAPROFESSIONAL

The Education Paraprofessional Level I certificate introduces the educational field to students interested in careers in education and/or child development. The certificate is the first component of the "ladder" concept by which students may gain employment and/or continue their education.

**Student Learning Outcomes:**

- Upon the successful completion of this certificate, students should be able to:
1. Demonstrate professional behavior and employ professional vocabulary appropriate to an entry-level educational job setting.
  2. Communicate effectively within a classroom environment as a learning facilitator.
  3. Demonstrate teaching and learning strategies sensitive to the needs of diverse k-12 learners.
  4. Demonstrate preparation and qualifications for employment in the education field.

**Requirements for the Education Paraprofessional Level I Certificate: (Non-transcripted)**

[L013/99999/0802.00/13.1501]	
CDE 2 Child Growth and Development	3
ED 10 Elementary Classroom Fieldwork	3
ED 400 Introduction to Education and Teaching I	3
ENGL 475 Fundamentals of College Reading and Writing	4

**Total units for the certificate** **13**

## ELECTRICITY

*(See Industrial Electrical Technology)*



## ELEMENTARY TEACHER EDUCATION ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Elementary Teacher Education for Transfer prepares students for seamless transfer to California State Universities to major in either a General Track Liberal Studies Program, or an Integrated Liberal Studies/Multiple Subject Teaching Credential Program.

The program is suited to the needs of students who will complete their education at Chaffey College with an A.A. degree, as well as those students who will complete their Chaffey A.A. degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the Associate in Arts in Elementary Teacher Education for Transfer guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of Elementary Teacher Education.

The goals and outcomes for the Elementary Teacher Education major include the following:

1. Prepare students for seamless transfer to a California State University to major in either a General Track Liberal Studies Program, or an Integrated Liberal Studies/Multiple Subject Teaching Credential Program.
2. Prepare students for the Multiple Subject California Subject Examination for Teachers (CSET: Multiple Subject)
3. Prepare students for admission to a California Teacher Preparation Program.
4. Prepare students for careers in K-12 paraprofessional work.



To obtain the Elementary Teacher Education A.A.-T degree, students must complete the following:

1. Completion of 60 semester units or 90 quarter units which are eligible for transfer to the California State University, including both of the following:
  - (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
  - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0. Associate Degrees for Transfer also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate academic skills from a broad range of liberal arts subject matter.
2. Communicate effectively within a classroom environment as a learning facilitator.
3. Demonstrate teaching and learning strategies sensitive to the needs of diverse k-12 learners.

**Major requirements for the Associate in Arts for Transfer Degree** Units  
[A120/33241/0802.00/13.1501]

#### **Required Core (43 units)**

BIOL 1	General Biology	4
CDE 2	Child Growth and Development	3
COMSTD 2	Fundamentals of Effective Speaking	3
ED 10	Elementary Classroom Fieldwork	3
ENGL 1A	Composition	3
ENGL 1C	Introduction to Literature	3
ESC 1	Earth Science	3
ESC 1L	Earth Science Laboratory	1
GEOG 1	World Regional Geography	3
HIST 1	World History: Pre-Civilization to 1500	3
HIST 17	United States History through 1877	3
MATH 4	Mathematical Concepts for Elementary School Teachers	4
PS 1	American Politics	3
PHSCI 10	Survey of Chemistry and Physics	4

#### **List A: Select one (3 units)**

COMSTD 72	Logic and Argumentation	3
ENGL 1B	Advanced Composition and Critical Thinking	3
PHIL 75	Symbolic Logic	3
PHIL 76	Critical Thinking	3

#### **List B: Select one (3 units)**

DANCE 1	Survey of Dance	3
MUSIC 4	Music Appreciation	3
THEATRE 1	Introduction to Theatre	3

<b>Units for the Major</b>	<b>49</b>
<b>Units that may be double-counted</b>	<b>34</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>37-39</b>
<b>plus transfer-level course electives (as needed)</b>	<b>6-8</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## EMERGENCY MEDICAL PROVIDER

### **STATE APPROVAL PENDING**

The Emergency Medical Provider certificate trains students to perform basic life support in a pre-hospital setting, preparing them for employment in the field of Emergency Medicine. Successful completion identifies the student as having met the educational requirements as an Emergency Medical Provider-Basic/EMT. Certificate holders are qualified to take the National Registry examinations necessary for state certification.

#### **Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Describe the role and responsibilities of First Responders as professionals in the health care system interacting with other allied health personnel.
2. Recognize the signs and symptoms of life threatening situations and be able to triage clients accurately in pre-hospital settings.
3. Demonstrate the process for conducting patient assessments in a variety of pre-hospital situations for clients of various ages.

#### **Requirements for the Emergency Medical Provider Certificate (Non-transcripted; state approval will result in transcription):**

[E233/99999/1250.00/51.0904]	Units	
EMT 405	Emergency Medical Responder	3
EMT 411	Emergency Medical Technician	7
BIOL 30	Beginning Medical Terminology	3
BIOL 424	Anatomy and Physiology	3
BIOL 424L	Anatomy and Physiology Laboratory	1
FIRETEC 406	Hazardous Materials First Responder Operations	2

**Total units for the certificate** **19**

\*local, state, and/or national certification standards mandate a cumulative grade point average of “B” or better for the courses in this program.

## ENGINEERING

This curriculum provides students with sufficient understanding of engineering concepts and skills for attainment of upper-division status in engineering in a four-year college or university. For the non-transfer student, this curriculum should be of value in attaining employment at the level of technician.

The California Engineering Liaison Committee urges transfer students to remain in the community college until completion of lower-division requirements in mathematics, chemistry, physics, and engineering, insofar as those courses are offered.

#### **Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Apply the laws of electricity and mechanics appropriately as needed for engineering.
2. Apply laws of physical and chemical properties of materials appropriately in relation to the effective design of buildings and products.
3. Apply computer-programming language to solve practical engineering problems.
4. Effectively, display information graphically and employ graphics as a fundamental thought process in drawing and design.
5. Increase problem solving skills and critical thinking in engineering.
6. Conduct laboratory experiments and apply their understanding of theory to the use and operation of electrical test equipment.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Science Degree:</b> [S165/04768/0901.00/14.0102]		Units
ENGIN 11	Introduction to Engineering	2
MATH 65A	Calculus I	4
MATH 65B	Calculus II	4
PHYS 45	Physics for Scientists and Engineers I	5
PHYS 46	Physics for Scientists and Engineers II	5
PHYS 47	Physics for Scientists and Engineers III	5

**Plus three courses from the following:**

ENGIN 26	Engineering Graphics and CAD	3
ENGIN 30	Engineering Application of Digital Computation	3
ENGIN 50	Engineering Statics	3
ENGIN 52	Engineering Dynamics	3
ENGIN 60	Materials of Engineering	3
ENGIN 71	Circuit Analysis	4

**Total units for the major** **34-35**

**Required General Education course:**

CHEM 24A	General Chemistry I	5
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**Strongly recommended:**

CHEM 24B	General Chemistry II	5
DRAFT 43	Advanced CAD Modeling and Applications	3
MATH 75	Calculus III	5
MATH 81	Linear Algebra	4
MATH 85	Differential Equations	4

## ENGINEERING TECHNOLOGY

The Engineering Technology Associate Degree program prepares students for employment in technical fields or to transfer to university engineering technology programs. By completing the degree or certificate requirements, students acquire a foundation in the principles of engineering, engineering design, computer-aided design, electronics, manufacturing processes, manufacturing automation, and the application of math and science in technical fields.

Careers in engineering technology involve high level technical work in the creation, manufacture, production, utilization, and distribution of industrial materials, products and processes. Engineering technicians/technologists serve as members of the engineering team and engage in the management, design, production, assembly, quality control and sales activities in their respective fields.

Graduates accept jobs with titles such as CAD and design technicians, engineering aides, plant maintenance personnel, designers/draftspersons, production assistants, project managers, sales engineers, consultants, design/production assistant, manufacturing support and lab technicians/technologists within many disciplines of engineering technology. With additional experience, promotion to positions such as industrial supervisors, machine and tool designers, technical buyers, production expeditors, and cost estimators is possible.

The Engineering Technology Certificate of Achievement provides students the fundamental skills needed for employment in technical positions in the design and manufacturing workplace. By completing the certificate requirements, students acquire a foundation in math, chemistry, physics, drafting, computer-aided design (CAD), engineering principles and design, manufacturing processes, and electronics, and can apply the associated concepts and tools in technical fields. Engineering technicians can expect to find employment as key members of an engineering/production team and be involved in the product development/production cycle at virtually any stage from research and development to quality assurance to customer support or technical sales.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Effectively express information regarding engineering technology activities and topics through speaking, writing, producing engineering drawings and diagrams, using digital media and other appropriate modes of communication/expression.
2. Apply the knowledge, techniques, skills, and modern tools of engineering technology.
3. Function competently in a laboratory setting, which includes working effectively in teams, making measurements, operating technical equipment, critically examining and properly reporting experimental results, and reflecting on their potential for process improvement.
4. Utilize principles of mathematics and applied science to perform technical calculations and solve technical problems of the types commonly encountered in engineering technology careers.
5. Demonstrate an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity.
6. Engage in self-directed life-long learning, especially concerning maintenance and improvement of technical skills.
7. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

### Major requirements for the Associate in Science Degree:

<b>Major requirements for the Associate in Science Degree:</b> [S166/31876/0924.00/15.0000]		Units
CHEM 24A	General Chemistry I	5
EGTECH 10	Introduction to Engineering Design	4
EGTECH 12	Principles of Engineering	4
EGTECH 14	Electronics for Engineering Technologists I	3
EGTECH 16	Computer Integrated Manufacturing – CNC Material Removal	3
PHYS 20A	Algebra/Trigonometry College Physics I	4

**Plus two courses from the following:**

DRAFT 20	Computer-Aided Drafting and Design	4
DRAFT 21	Mechanical Design 1	3
DRAFT 43	Advanced CAD Modeling and Applications	3
ENGIN 60	Materials of Engineering	3

**Total units for the major** **29-30**

### Engineering Technology Certificate

The Engineering Technology Certificate of Achievement provides students the fundamental skills needed for employment in technical positions in the design and manufacturing workplace. By completing the certificate requirements, students acquire a foundation in math, chemistry, physics, drafting, computer-aided design (CAD), engineering principles and design, manufacturing processes, and electronics, and can apply the associated concepts and tools in technical fields. Engineering technicians can expect to find employment as key members of an engineering/production team and be involved in the product development/production cycle at virtually any stage from research and development to quality assurance to customer support or technical sales.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Effectively express information regarding engineering technology activities and topics through speaking, writing, producing engineering drawings and diagrams, using digital media and other appropriate modes of communication/expression.
2. Apply the knowledge, techniques, skills, and modern tools of engineering technology.
3. Function competently in a laboratory setting, which includes working effectively in teams, making measurements, operating technical equipment, critically examining and properly reporting experimental results, and reflecting on their potential for process improvement.
4. Utilize principles of mathematics and applied science to perform technical calculations and solve technical problems of the types commonly encountered in engineering technology careers.
5. Demonstrate an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity.
6. Engage in self-directed life-long learning, especially concerning maintenance and improvement of technical skills.

**Major requirements for the Engineering Technology Certificate:**

	Units	
[L166/31873/0924.00/15.0000]		
CHEM 10	Introductory Chemistry (or CHEM 24A, General Chemistry I, 5)	4
EGTECH 10	Introduction to Engineering Design	4
EGTECH 12	Principles of Engineering	4
EGTECH 14	Electronics for Engineering Technologists I	3
EGTECH 16	Computer Integrated Manufacturing – CNC Material Removal	3
PHYS 5*	The Ideas of Physics	3
PHYS 6*	The Ideas of Physics Laboratory	1

**Plus two courses from the following:**

DRAFT 20	Computer-Aided Drafting and Design	4
DRAFT 21	Mechanical Design 1	3
DRAFT 43	Advanced CAD Modeling and Applications	3
ENGIN 60	Materials of Engineering	3

**Total units for the certificate 28-30**

\*PHYS 20A, Algebra/Trigonometry College Physics I may substitute for PHYS 5 and PHYS 6.



## ENGLISH ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in English for Transfer degree will prepare students for baccalaureate degrees in English.

The goals and outcomes for the English major include the following:

1. Prepare students to read, write, and think critically through the study and application of rhetorical methods, literary devices, literary history, and creative expression
2. Prepare students for transfer to a CSU to complete an English baccalaureate degree.
3. Prepare students for advanced studies within the fields of English, literature, creative writing, linguistics, or journalism.
4. Prepare students for careers in English, education, publishing, law, or business.

The Associate in Arts in English for Transfer degree gives students an appreciation of literature and increased skills in written communication. The Associate for Transfer in English degree will provide seamless transfer opportunities to California State Universities for those students desiring to transfer to the CSU system. This degree is flexible enough to meet transfer requirements at four year institutions. Through the study of language and literature, students are better able to communicate, to persuade, and to understand human nature. More specifically, superior ability to understand and to use English is necessary for success in most careers, particularly those in education, writing, business, journalism, and law.

The program is suited to the needs of students who will complete their education at Chaffey College with an A.A. degree, as well as those students who will complete their Chaffey A.A. degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in English guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree.

To obtain the English Associate in Arts for Transfer (AA-T) degree, students must:

- Complete the major requirements listed below with grades of C or better.
- Complete a minimum of 60 semester CSU transferable units with a minimum grade point average of (GPA) of 2.0.
- Complete either the California State University General Education Breadth pattern (CSU-GE), or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Transfer to a CSU for completion of a major in English.
2. Understand the relationship between purpose and audience in a text.
3. Apply the elements of the reading process (prereading, active reading, reviewing, responding, etc.) to any reading assignment in the academic and professional spheres.
4. Apply the elements of the writing process (inventing, drafting, revising, editing, proofreading, etc.) to any writing assignment both in the academic and professional spheres.
5. Respond critically to reading assignments using reflection, analysis, and synthesis.
6. Reflect on and evaluate their own progress as readers, writers, and critical thinkers.

**Major requirements for the Associate in Arts for Transfer Degree:**

[A171/31657/1501.00/23.0101]

**Required (6 units):**

ENGL 1B	Advanced Composition and Critical Thinking	3
ENGL 1C	Introduction to Literature	3

**List A – Any two courses (6 units)**

ENGL 70A	World Literature	3
ENGL 70B	World Literature	3
ENGL 75A	American Literature	3
ENGL 75B	American Literature	3
ENGL 80A	Survey of British Literature	3
ENGL 80B	Survey of British Literature	3

**List B – Any one course (3 units)**

Any List A courses not used above, or:

ENGL 7A	Creative Writing: Short Fiction	3
ENGL 7B	Creative Writing: Fiction	3
ENGL 7D	Creative Writing: Poetry	3
ENGL 68	Mythology	3

**List C – Any one course (3 units)**

Any List A or List B courses not used above, or:

COMSTD 14	Oral Interpretation of Literature	3
ENGL 7E	Creative Writing: Nonfiction	3
ENGL 32	Introduction to the Novel	3
ENGL 33	Introduction to Poetry	3
ENGL 35	Literary Magazine Production	4
ENGL 74	Asian-American Literature	3
ENGL 76	African-American Literature	3
ENGL 77	Latino Literature	3
ENGL 79	Native American Literature	3
ENGL 81	Shakespeare	3
JOUR 10	Newsriting	3

<b>Units for the Major</b>	<b>18-19</b>
<b>plus CSU General Education or IGETC Pattern</b>	<b>41-42</b>
<b>Units That May Be Double-Counted</b>	<b>12</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## FASHION DESIGN

The Fashion Design degree prepares students for positions in design, pattern-making, production management, textile buying, and other related positions. The degree also prepares students for transfer to a four-year program to complete a bachelor's degree.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Transfer to a four-year college, and obtain a bachelor's degree in fashion design.
2. Identify and select the technical skills and technology necessary for fashion design, production and retailing and effective marketing.
3. Obtain advancement in the fashion industry.
4. Have a global awareness and understanding of the social, organizational and technological systems that are an integral part of the fashion community.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

Major requirements for the Associate in Science Degree:		Units
[S180/04795/1303.10/50.0407]		
BUSOT 63	Microsoft Office Excel – Comprehensive	3
FASHD 20	History of Fashion	3
FASHD 40	Beginning Clothing Construction	2
FASHD 45	Design Fundamentals for Fashion and Interiors	3
FASHD 61	Pattern Drafting I	3
FASHD 65	Fashion Illustration	2
FASHD 428	Computer-Aided Design	2
FASHD 442	Industrial Sewing	2
FASHD 470	Apparel Production	3
FASHD 471	Advanced Patternmaking	3
FASHD 472	Computer-Aided Patternmaking	2
FASHD 480	Design Collection	2
FASHD 482	Industry Internship: Fashion Design	1
FASHM 10	Introduction to the Fashion Industry	3
FASHM 60	Textiles	3
<b>Total units for the major</b>		<b>37</b>

### Fashion Design Certificate

The Fashion Design certificate prepares students for entry-level positions as designer assistants, sample makers, production technicians, CAD operators, illustrators, sewers and other related positions.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Perform effective business practices, work ethics and professionalism relevant to employment in the fashion industry.
2. Apply critical thinking, teamwork, multicultural and global awareness skills as they relate to the international marketplace and cross-cultural apparel industry.
3. Obtain entry-level positions as a patternmaker, design assistant, sample-maker, textile and trim buyer, market research, tech-pack developer and a variety of other support positions.
4. Research and identify market trends, communicate their findings to a design team and use the data to strategize a plan for a new apparel line.

### Requirements for the Fashion Design Certificate

[L180/20729/1303.10/50.0407]

Same as the major requirements for the A.S. Degree.

**Total units for the certificate** **37**

### Recommended Courses for both Degree and Certificate:

BUSMGT 45; FASHD 42, 72; plus AMM 410 & 410A, which are Cal Poly Pomona courses available through cross-enrollment. See counselor.

### Custom Dressmaking

The Custom Dressmaking certificate prepares the student for small business ownership in couture and custom work, as well as the highly demanded alterations field. Skills acquired also enable the student to apply for sample making in the apparel manufacturing field and costume construction in theatre and performing arts.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Interview a client and obtain pertinent information on garment design, fabrication, and cost and completion schedule for custom garments.
2. Adapt commercial patterns to individual client measurements and construct finished garments.
3. Select fabrics, linings, notions and construction methods, using industry standards that will complete a variety of ready-to-wear garments.
4. Perform a variety of garment alterations including re-sizing, hemming, repairs and basic design modification.
5. Analyze garment fit, apply appropriate markings, provide a cost estimate and execute the changes necessary to correct a variety of fitting problems.

Requirements for the Custom Dressmaking Certificate:		Units
[L184/15526/1303.30/19.0902]		
FASHD 40	Beginning Clothing Construction	2
FASHD 42	Advanced Clothing Construction	2
FASHD 61	Pattern Drafting I	3
FASHD 72	Fashion Draping	2
FASHD 442	Industrial Sewing	2
FASHD 445	Fitting and Alterations of Patterns and Apparel	2
FASHD 471	Advanced Patternmaking	3
FASHD 480	Design Collection	2
FASHD 482	Industry Internship: Fashion Design	1
FASHM 10	Introduction to the Fashion Industry	3
FASHM 60	Textiles	3
<b>Total units for the certificate</b>		<b>25</b>

**Recommended Courses:** BUSMGT 45, FASHD 45.

### Industrial Sewing

An Industrial Sewing Certificate prepares the student for apparel construction based on industry methods and the utilization of power sewing equipment. Employment opportunities: commercial sewing machine operator or apparel industry sample maker.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Efficiently and safely operate a variety of industrial sewing machines.
2. Select the machine that generates the stitch necessary for a variety of fabric types and seam structures.
3. Perform basic machine maintenance for a variety of industrial sewing machines.
4. Utilize the U.S. standards for machine class, stitch classification and seam specification, and apply that information to specification sheets used in international apparel construction.
5. Communicate with designers, production engineers, sewers and contractors using industry terminology.

Requirements for the Industrial Sewing Certificate (Non-transcripted):		Units
[L182/99999/1303.30/19.0902]		
FASHD 40	Beginning Clothing Construction	2
FASHD 42	Advanced Clothing Construction	2
FASHD 442	Industrial Sewing	2
<b>Total units for the certificate</b>		<b>6</b>



## Patternmaking for Apparel

The Patternmaking for Apparel certificate prepares the student for employment in the apparel industry as a first patternmaker. Technical skills assist with employment in related areas including apparel production and costume design.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Analyze fashion drawings and create a pattern to construct a sample garment, and then adapt the pattern for manufacturing.
2. Make modifications to existing patterns that will generate new designs or a change in fit.
3. Modify historic fashion designs to fit current body types, foundation garments and fabrication.
4. Produce apparel patterns and provide assembly instructions utilizing industry methods.

Requirements for the Patternmaking for Apparel Certificate:		Units
[L187/15525/1303.10/50.0407]		
FASHD 20	History of Fashion	3
FASHD 40	Beginning Clothing Construction	2
FASHD 61	Pattern Drafting I	3
FASHD 72	Fashion Draping	2
FASHD 445	Fitting and Alterations of Patterns and Apparel	2
FASHD 470	Apparel Production	3
FASHD 471	Advanced Patternmaking	3
FASHD 472	Computer-Aided Pattern Making	2
FASHD 482	Industry Internship: Fashion Design	1
FASHM 10	Introduction to the Fashion Industry	3
FASHM 60	Textiles	3
<b>Total units for the certificate</b>		<b>27</b>

### Recommended Courses:

BUSMGT 45, plus AMM 410 & 410A which are Cal Poly Pomona courses available through cross-enrollment. See counselor.

## FASHION MERCHANDISING

The Fashion Merchandising degree prepares students for employment in retailing related to apparel and accessory merchandise buying and management. Other career avenues are sales representatives for manufacturers, visual display, image consulting, product distribution, importing and exporting, and sales promotions. Completion of the degree also prepares students for transfer to four-year colleges to pursue a bachelor's degree.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Transfer to a four-year college and obtain a bachelor's degree in fashion merchandising.
2. Develop the tools, contacts and skills necessary to compete for employment in the fashion merchandising field.
3. Identify design trends, manufacturing methods, market research and forecasting, and quality control and distribution.
4. Utilize the technology necessary in the field of fashion merchandising.
5. Obtain advancement or employment in a variety of careers in fashion merchandising with the development of problem-solving and improved communication skills.
6. Develop a global awareness and understanding of the social, economic, cultural and technological systems that intersect in merchandising fashion.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

Major requirements for the Associate in Science Degree:		Units
[S185/04822/1303.20/19.0905]		
BUSMGT 44	Introduction to Human Relations	3
BUSMKT 13	Professional Selling	3
BUSOT 63	Microsoft Office Excel - Comprehensive	3
CIS 1	Introduction to Computer Information Systems	3
FASHD 40	Beginning Clothing Construction	2
FASHM 10	Introduction to the Fashion Industry	3
FASHM 11	Retail Merchandising and Management	3
FASHM 12	Visual Merchandising	3
FASHM 60	Textiles	3
FASHM 482	Industry Internships: Fashion Merchandising	1

### Plus two courses from the following:

BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUS 61	Introduction to Global Business	3
BUSMGT 45	Small Business Ownership and Management	3
FASHD 45	Design Fundamentals for Fashion and Interiors	3
FASHD 428	Computer-Aided Design	2
FASHM 15	Image and Fashion Selection	3

**Total units for the major 32-33**

## Fashion Merchandising Certificate

The Fashion Merchandising certificate prepares students for entry-level positions in retail, merchandising, assisting buyers, and display design in the fashion industry or related businesses.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Work as a merchandiser for a retailer, wholesaler or apparel manufacturer.
2. Assist a buyer by researching and collecting data on fashion trends, targeted customer patterns, past and projected sales and strategies for improvement.
3. Design retail displays that include fixture styles, function and quantities needed, floor plans, projected costs, lighting design, and time-lines for project completion.
4. Perform the skills of a stylist by assessing body types, identifying color palettes, clothing designs and accessories that flatter the individual.
5. Create a buying plan for a store or department that will factor in target market, season, location, style, quality, quantity, price-point, profit margin and delivery time-line.
6. Provide information for manufacturers relating to textile sourcing, selection, serviceability and performance for clothing and accessory products.

### Requirements for the Fashion Merchandising Certificate:

[L185/20730/1303.20/19.0905]

Same as the major requirements for the A.S. Degree.

**Total units for the certificate 32-33**

## FIRE TECHNOLOGY: PROFESSIONAL FIREFIGHTER

The Fire Technology degree and certificate programs are designed to (1) prepare interested students for careers in public or private fire service, (2) provide existing fire service personnel with continuing in-service training in skills applicable to their present position, (3) provide existing fire service personnel with upgraded skills needed to avail themselves of promotional opportunities, and (4) for college transfer students pursuing a higher education degree in Fire Protection Administration and Technology.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Be prepared for careers in fire technology within California communities.
2. Analyze the elements of firefighter safety and survival; differentiate fire prevention, firefighting and the types of fire apparatus.
3. Demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety.
4. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

Major requirements for the Associate in Science Degree:		Units
[S141/15674/2133.00/43.0201]		
FIRETEC 1	Principles of Emergency Services	3
FIRETEC 2	Fire Behavior and Combustion	3
FIRETEC 3	Fire Protection Systems	3
FIRETEC 4	Building Construction for Fire Protection	3
FIRETEC 5	Fire Prevention	3
FIRETEC 409	Principles of Fire and Emergency Services Safety and Survival	3

### Plus two courses from the following:

FIRETEC 6	Fire Apparatus and Equipment	3
FIRETEC 7	Strategies and Tactics	3
FIRETEC 8	Fire Ground Hydraulics	3
FIRETEC 10	Wildland Fire Control	3
FIRETEC 402	Basic Incident Command Systems - ICS-200	1
FIRETEC 406	Hazardous Materials First Responder Operations	2

**Total units for the major** **21-24**

## Fire Technology: Professional Firefighter Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Identify and describe the minimum qualifications and entry-level skills for fire fighter hiring including the following elements: application process; written exam process; physical agility exam, oral interview, chief's interview; background investigation; and fire fighter probationary process.
2. Identify fire service history, culture and diversity.
3. Identify and describe the apparatus used in the fire service, and the equipment and maintenance of fire apparatus and equipment.

### Requirements for the Fire Technology: Professional Firefighter Certificate:

[L141/20739/2133.00/43.0201]

Same as the major requirements for the A.S. Degree.

**Total units for the certificate** **21-24**



## GEOGRAPHY ASSOCIATE IN ARTS FOR TRANSFER

Geographers integrate time, space, and demographics into maps which have both academic and applied values. Geography is an interdisciplinary area of study that interfaces with earth sciences, life sciences, business, and teaching. The field of geography requires that students be broadly based in two major areas: cultural geography and physical geography. These areas form the core of the curriculum. Students may then pursue other areas of concentration.

The Associate in Arts for Geography for Transfer (AA-T) degree is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Geography guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of geography, earth science, geology, geophysics, and various social sciences.

The goals and outcomes for the Geography major include the following:

1. Prepare students for seamless transfer to a CSU to complete a Geography baccalaureate degree.
2. Prepare students for advanced studies within the field of Geography

To obtain the Geography AA-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Identify places/locations/countries on a blank regional or world map.
2. Identify geographic landforms in the field.
3. Identify major continents, rivers, islands, and other features on a world map.
4. Recognize various geographic features on a map of North America including major biomes, vegetative regions, rivers, lakes and islands.
5. Investigate their physical environment and explain how various physical forces shape the environment in which they live.
6. Discuss and describe the major concepts in human geography including place, space, scale, and landscape.
7. Assess how all inhabitants of earth are interrelated with the lives of people in other places, thereby creating a greater understanding of the places and landscapes encountered in everyday life.

**Major requirements for the Associate in Arts for Transfer Degree** Units  
[A206/32073/2206.00/45.0701]

### Required (7 units):

GEOG 4	Physical Geography	3
GEOG 5	Physical Geography Laboratory	1
GEOG 11	Human Geography	3

### List A (6 units):

GEOG 1	World Regional Geography	3
GEOG 3	Geography of California	3

## FOREIGN LANGUAGES

(See Chinese, Sign Language and Spanish)

**List B (6-7 units):**

Any List A course not used above, and/or:

ANTHRO 3	Introduction to Social and Cultural Anthropology	3
GEOG 6	Environmental Geography	3
GEOG 10	Cultural Geography of North America	3
GEO 1	Physical Geology	4

<b>Units for the Major</b>	<b>19-20</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>39-40</b>
<b>plus transfer-level course electives (as needed)</b>	<b>0-2</b>
<b>Total Units Required for Degree</b>	<b>60</b>



## GEOLOGY ASSOCIATE IN SCIENCE FOR TRANSFER

The Geology Associate in Science for Transfer is unique among the sciences; Geology is the study of the earth, its environments, and its history. It is an interdisciplinary science that combines geological observations and concepts with those of biology, chemistry, physics and mathematics. Its goals are to study rocks, minerals, fossils, and energy and water resources, and to understand geologic principles and processes that shape the earth and its environments.

Specialized geological studies apply information and techniques from other sciences and engineering to solve problems of the physical environment. Examples of geological specialties include the following: paleontology, the study of prehistoric biology; mineralogy, the application of chemistry and physics to understanding the origin and history of rocks; engineering geology, the application of geological and engineering information to construction of roads, dams, tunnels, landslide stabilization, etc.; and hydrology, the study of surface and underground water supplies.

The program is suited to the needs of students who will complete their education at Chaffey College with an Associate in Science degree, as well as those students who will complete their Chaffey Associate in Science degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Geology guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the fields of civil engineering, drafting, engineering management, geography education, petrology, physical geology, environmental geology, invertebrate paleontology, oceanography, geophysics, hydrology and seismology. Geology majors continue to find employment searching for new oil and gas reserves and mineral deposits but they also work with federal, state, and local agencies to develop ecologically sound environmental policies. Many geologists are involved in estimating the extent of land, water and mineral resources as well as determining potential hazards from earthquakes, landslides, floods, and volcanoes.

To obtain the Geology Associate in Science for Transfer (AS-T) degree, students must:

- Complete all the major requirements listed below with grades of C or better.
- Complete a minimum of 60 CSU-transferable units listed with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE), or the Intersegmental General Education Transfer Curriculum (IGETC).

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Evaluate how the scientific method is used in geology especially as it relates to student understanding of the concept of scientific theory.
2. Assess how plate tectonics accounts for dynamic processes in geology such as mountain building, earthquakes and volcanoes.
3. Evaluate scientific news in the popular press in accordance with geological concepts such as subduction, mass weathering or biological evolution.
4. Use scientific experiments and investigations to develop an understanding of the geological environment.
5. To provide a seamless transfer to a CSU for students who wish to complete a bachelor's degree in Geology.

**Major requirements for the Associate in Science for Transfer Degree:** Units  
[S221/30941/1914.00/40.0601]

**Required (26 units):**

GEO 1	Physical Geology	4
GEO 2	Historical Geology	4
CHEM 24A	General Chemistry I	5
CHEM 24B	General Chemistry II	5
MATH 65A	Calculus I	4
MATH 65B	Calculus II	4

<b>Units for the major</b>	<b>26</b>
<b>plus CSU-GE or IGETC Units</b>	<b>34</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## GERONTOLOGY

Gerontology prepares students for new careers resulting from the increasing population of older people. This is an interdisciplinary field incorporating research on aging in psychology, physiology, and sociology as well as public policy and social ethics.

Gerontology courses provide short-term training for immediate employment and may also lead to a Community Caregiver certificate, a certificate in Gerontology, or an Associate in Science degree in Gerontology. Nurses, social workers, and administrators of care facilities may earn Continuing Education units.

Gerontology is increasingly important in professions such as medicine, law, architecture, mental health, and social work. Transfer students will find Gerontology courses at more than 15 California universities. Other employment opportunities are found in residential communities, recreation, marketing, nutrition, counseling and referral, paralegal services, and businesses and agencies serving older adults, including persons with dementia.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Apply critical thinking skills by using analytical, qualitative and quantitative reasoning, and the application of previously learned concepts, to situations and complex challenges experienced by older adults and their families.
2. Demonstrate oral and written communication skills to enable effective work as a multidisciplinary team member or leader to achieve goals.
3. Apply a broad comprehension of the liberal arts integrated with a depth of knowledge in biopsychosocial concepts to theoretical and practical problems in gerontology.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

**Major requirements for the Associate in Science Degree:** Units  
[S230/04798/1309.00/19.0702]

GERO 11	Introduction to Gerontology	3
GERO 18	Aging and the Life Course	3
GERO 23	Aging and Older Adulthood	3
GERO 404	Health and Wellness for Older Adults	3
GERO 405	Resources and Services for Older Adults	2
GERO 406	Gerontology Career Practicum	1

**Plus three courses from the following:**

GERO 22	Dying and Death	3
GERO 400	Principles of Caregiving: Older Adults and Their Care	3
GERO 422	Dementia Care: Understanding Dementing Illnesses	3
GERO 462	Activity Coordinator Training	4
GERO 463	Social Work Designee Training	3

**Total units for the major** **24-25**

## Gerontology Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Describe the importance of planning for their later years.
2. Explain how cultural ethnic, racial, gender and social class diversity as well as disability and dementia affect aging.
3. Explain how aging is changing, with recent cohorts such as Baby Boomers "aging" less or later and healthier.
4. Evaluate policy debates, e.g. public programs and the costs associated with an aging population.
5. Identify new professions and careers for an aging society, in addition to "direct care" services.

### Requirements for the Gerontology Certificate:

Same as the major requirements for the A.S. Degree.  
[L230/20736/1309.00/19.0702]

**Total units for the certificate**

**24-25**

## Community Caregiver

The Community Caregiver certificate prepares students for employment as formal caregivers in a variety of settings, including residential care facilities, adult day care, and home care. Community caregivers provide direct care to persons with chronic conditions, disabilities, and/or dementia and also to other individuals who need non-medical care including assistance with Activities of Daily Living (ADLs).

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate skills that foster capacities of analysis in the role as a community caregiver.
2. Demonstrate skills that foster capacities of critical reflection in the role as a community caregiver.
3. Demonstrate professional communication skills in the role as a community caregiver.
4. Explain how cultural ethnic, racial, gender, and social class diversity as well as disability and dementia affect aging.
5. Demonstrate the personal care skills necessary for working in the patient's home, assisted living, independent living, and hospice environments.
6. Appropriate skills to assist patients in attaining and maintaining independence.

### Requirements for the Community Caregiver Certificate :

Units

(Non-transcripted)  
[L232/99999/1309.00/19.0702]

GERO 11	Introduction to Gerontology	3
GERO 400	Principles of Caregiving: Older Adults and their Care	3
GERO 404	Health and Wellness for Older Adults	3
GERO 405	Resources and Services for Older Adults	2
GERO 422	Dementia Care: Understanding Dementing Illnesses	3

**Total units for the certificate**

**14**



## HISTORY ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in History for Transfer (AA-T in History) degree is designed to prepare students for transfer into the California State University (CSU) system to complete a baccalaureate in History or similar major. The History AA-T is in alignment with Chaffey College's mission, goals and objectives, is directed towards the appropriate level for community colleges, adheres to the academic rigor expected of the first two years of college, and reflects systematic instruction as guided by student learning outcomes that gauge mastery in the relevant knowledge, skills and abilities expected within the field of History.

The goals and outcomes for the History major include the following:

1. Prepare students for seamless transfer to a CSU to complete a History baccalaureate degree.
2. Prepare students for advanced studies within the field of History.
3. Deepen students' awareness of the world – past and present – and cultivate appreciation for beneficial community participation.

The Associate in Arts in History for Transfer is an area of study that deepens one's awareness of the work – past and present – and cultivates appreciation for beneficial community participation. The Associate in Arts in History is a degree suited to the needs of students who will complete their education at Chaffey College with an A.A. degree, as well as those students who will complete their Chaffey A.A. degree and transfer into the CSU system to complete their bachelor's degree. Successful completion of the transfer degree in History guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in preparation for careers in the fields of law, public administration, foreign service, journalism, business, and teaching.

To obtain the AA-T in History, students must:

- Complete a minimum of 18 semester units in the major listed below with grades of C or better in each course.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate the connections between events and how events influence the course of history.
2. Appraise the factors that shape history.
3. Analyze competing historical interpretations.
4. Distinguish between primary and secondary sources.
5. Organize historical events according to chronology.

### Major requirements for the Associate in Arts for Transfer Degree

Units

[A236/31891/2205.00/54.0101]

#### Required (6 units):

HIST 17	United States History through 1877	3
HIST 18	United States History from 1865	3

#### List A – Two courses (6 units); one from each group

##### Group 1

HIST 1	World History: Pre-Civilization to 1500	3
HIST 5	Early Western Civilizations	3

##### Group 2

HIST 2	World History: 1500 to Present	3
HIST 6	Modern Western Civilizations	3

#### List B – Two courses (6 units); one from each group

##### Group 1

HIST 1	World History: Pre-Civilization to 1500 (if not used in List A)	3
HIST 2	World History: 1500 to Present (if not used in List A)	3
HIST 4	History of Slavery	3
HIST 7	History of the Middle East	3
HIST 9	History of Asian Civilizations I	3
HIST 10	History of Asian Civilizations II	3
HIST 12	Asian-American History	3
HIST 19	History of Ethnic Relations in the United States	3
HIST 25	Women in United States History	3
HIST 50	African-American History I	3
HIST 51	African-American History II	3
HIST 70	Chicanos: Common History of Mexico and the United States	3
HIST 71	Chicanos: The Chicano Minority in the United States	3



<b>Group 2</b>		
HIST 16	Westward Movement and the Indian Wars 1840-90	3
HIST 20	Contemporary History of the United States: 1945-Present	3
HIST 21	The Sixties in American History	3
HIST 37	California History	3
HIST 40	Retrospective of World War II	3
HUMAN 5	Arts and Ideas: Antiquity to Renaissance	3
HUMAN 6	Arts and Ideas: Renaissance to Modern	3

<b>Units for the Major</b>	<b>18</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>39-41</b>
<b>plus CSU transfer-level course electives (as needed)</b>	<b>1-3</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## HOSPITALITY MANAGEMENT

### Food Service Management

Students awarded the degree in Food Service Management will be prepared for entry-level management and trainee management opportunities in the rapidly expanding food service industry. Graduates may assume a variety of employment opportunities in hotels, restaurants, resorts, cruise lines, schools, prisons, military, hospitals, owner-operated businesses and a variety of food service management companies nationwide.

**Note:** A current negative tuberculosis test is required for participation in this program.

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Transfer to a four-year college and obtain a bachelor's degree in food service management.
2. Manage the professional preparation of food in a commercial kitchen.
3. Train and supervise food service workers to execute a variety of tasks in a commercial kitchen.
4. Manage and motivate food service workers in restaurants, banquet facilities and institutions.
5. Accurately forecast staffing needs and schedule food service workers for a variety of functions.
6. Manage inventory for a food service establishment, and order food and supplies accordingly.
7. Estimate food and labor costs in a food service establishment.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Science Degree:</b>	<b>Units</b>	
[S255/04799/1307.10/12.0504]		
HOTFS 10	Introduction to Hospitality Management	3
HOTFS 14	Quantity Food Production Management	3
HOTFS 17	Principles of Food Preparation	3
HOTFS 18	Sanitation, Safety, and Equipment Management	2
HOTFS 21	Purchasing, Cost Controls, and Menu Planning	3
HOTFS 22	Restaurant and Catering Operations	3
HOTFS 32	Hospitality Law	3
HOTFS 428	Human Resource Management	3
HOTFS 431	Hospitality Marketing Management	3
HOTFS 436A	Culinary Arts I	2

**Total units for the major** **28**

### Food Service Management Certificate

Students who earn the Certificate will be prepared to work in a variety of positions in food service establishments under the supervision of a manager or supervisor. Employment opportunities include restaurants, hotels, catering facilities, hospitals, schools, prisons, military, cruise lines, resorts, and owner-operated businesses. The industry internship opportunity provides on-the-job training and experience to expose graduates to the extensive variety of jobs available in the ever-growing food service industry.

#### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Follow the required sanitation and safety guidelines.
2. Perform tasks as assigned in commercial kitchens of food service establishments.
3. Identify and operate a variety of food service equipment in a commercial kitchen.
4. Provide customer service at the front of the house in a food service establishment, catering to the needs of guests to foster repeat patronage.
5. Receive food items delivered to a food service establishment, utilizing the proper methods of supply rotation to avoid spoilage.

#### Requirements for the Food Service Management Certificate:

[T255/20733/1307.10/12.0504]

HOTFS 10	Introduction to Hospitality Management	3
HOTFS 14	Quantity Food Production Management	3
HOTFS 17	Principles of Food Preparation	3
HOTFS 18	Sanitation, Safety, and Equipment Management	2
HOTFS 21	Purchasing, Cost Controls, and Menu Planning	3
HOTFS 32	Hospitality Law	3
HOTFS 428	Human Resource Management	3
HOTFS 431	Hospitality Marketing Management	3
HOTFS 436A	Culinary Arts I	2
HOTFS 482	Industry Internship: Hotel and Food Service Management	1

**Total units for the certificate** **26**

### Hotel Management

Students who are awarded the degree in Hotel Management are prepared to enter executive training and entry-level management positions in hotels, motels, bed and breakfast operations, clubs and management companies. The curriculum focuses on the management phase of the growing hospitality industry, and is therefore well suited for those presently employed and interested in updating their skills or the opportunity for career advancement.

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Transfer to a four-year college, and obtain a bachelor's degree in hotel management.
2. Communicate effectively and accurately, both verbally and in writing with a variety of departments at lodging properties.
3. Examine and identify challenges in the operations of lodging properties, and develop alternate solutions.
4. Use critical thinking and problem-solving techniques common in the role of a training manager for lodging properties.
5. Supervise, lead and motivate workers in a variety of departments and job descriptions in lodging properties.
6. Train workers to provide consistent, quality guest services, with special attention given to legal and ethical business practices.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Science Degree:</b>	<b>Units</b>	
[S260/04801/1307.20/52.0904]		
HOTFS 10	Introduction to Hospitality Management	3
HOTFS 14	Quantity Food Production Management	3
HOTFS 17	Principles of Food Preparation	3
HOTFS 18	Sanitation, Safety, and Equipment Management	2
HOTFS 21	Purchasing, Cost Controls, and Menu Planning	3
HOTFS 22	Restaurant and Catering Operations	3
HOTFS 32	Hospitality Law	3
HOTFS 422	Hotel Operations	3
HOTFS 428	Human Resource Management	3
HOTFS 431	Hospitality Marketing Management	3

**Total units for the major** **29**

## Hotel Management Certificate

Students who earn the certificate are prepared for entry-level positions that can lead to supervisory roles in a variety of lodging properties. The certificate opens doors for graduates to apply for a variety of job in the lodging industry, and on-site internships offer student access to multiple departments for on-the-job training.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Work in a variety of departments in a lodging property.
2. Work effectively and cordially with front- and back-of-the-house employees in a lodging property.
3. Supervise workers in a variety of departments in lodging facilities.
4. Provide consistent guest services as needed in multiple departments of a lodging property.
5. Perform tasks and duties as assigned across many departments of a lodging facility.

### Requirements for the Hotel Management Certificate:

[L260/20735/1307.20/52.0904]

Same as the major requirements for the A.S. Degree, *plus*:

HOTFS 482	Industry Internship: Hotel and Food Service Management	1
<b>Total units for the certificate</b>		<b>30</b>

## HUMANITIES

The Humanities major offers students a sound liberal arts background in literature, philosophy, art, music, and theatre for students going on into business, politics, law, personnel relations, and education.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Identify and evaluate types of sources of information in the literature of the arts and humanities.
2. Examine and evaluate major historical events from several ethical perspectives.
3. Identify and evaluate major historic texts, works of art, and architecture.
4. Analyze competing historical interpretations.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

### Major requirements for the Associate in Arts Degree:

[A265/04820/4903.00/24.0103]

HUMAN 5	Arts and Ideas: Antiquity to Renaissance	3
HUMAN 6	Arts and Ideas: Renaissance to Modern	3

### Plus six units from the following:

History 1, 2, 4, 5, 6, 9, 10, 17, 18 6

### Plus six units from the following:

English 32, 33, 70A, 70B, 75A, 75B, 80A, 80B, 81  
Humanities 20 6

### Plus three units from the following:

Art History 3, 5  
Broadcasting 3  
Cinema 25, 26  
Music 2A, 2B, 4  
Photography 1  
Theatre 1, 4, 5 3

### Plus three units from the following:

Economics 1, 8  
Philosophy 70, 72, 73, 76, 80, 81, 82 3

**Total units for the major 24**

**Note:** Courses included in the Humanities major cannot also be used to fulfill General Education requirements.

## INDUSTRIAL ELECTRICAL TECHNOLOGY

The Industrial Electrical Technology degree and certificate programs provide a broad working base from which to handle the many facets of industrial electricity as it relates to light and heavy industry, construction, and utility companies that provide electrical power. The programs meet the needs of those entering the trade for the first time, and allow those already in the trade to improve their understanding of the craft.

Program curriculum covers electricity, magnetics, solid-state devices, electrical machinery, micro processing, programmable logic controllers (PLC), DC and AC variable speed drives, and automation, including modern sophisticated concepts and practical applications.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Troubleshoot and synthesize the knowledge, skills and abilities in order to obtain gainful employment in the field of industrial electricity, including compliance with OSHA standards.
2. Demonstrate critical thinking and problem solving appropriate within the field of industrial electricity as it relates to light and heavy industry, construction, and utility companies.
3. Communicate professionally regarding industrial electricity as it relates to programmable logic controllers (PLC).
4. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

### Major requirements for the Associate in Science Degree:

[S150/07378/0934.40/46.0301]

IET 401A	Introduction to Electricity	2.5
IET 401B	Industrial Basic Controls	2.5
IET 403A	Electrical Motors and Controls I	2.5
IET 403B	Electrical Motors and Controls II	2.5
IET 405	National Electrical Code	3
IET 407	Electrical Blueprints	3
IET 409	Static Devices	3
IET 411	Programmable Logic Controllers	3
IET 413	Intermediate Programmable Logic Controllers	3
IET 415	Advanced Electricity Laboratory	2
IET 417	Electrical Troubleshooting	3
IET 419	DC Variable Speed Drive	1.5
IET 421	AC Variable Frequency Speed Drive	1.5
IET 422	OSHA Construction Safety Training	2

**Total units for the major 35**

### Strongly recommended:

IET 482	Internship in Industrial Electricity	1
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## Industrial Electrical Technology Level I Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Understand the fundamental principles of electricity, industrial basic controls, and electrical motors.
2. Interpret blueprints and utilize the applications of motor controls in order to obtain gainful employment in the field of industrial electricity.
3. Interpret and apply the National Electrical Code (NEC) in order to obtain gainful employment in the field of industrial electricity.

**Requirements for the Industrial Electrical Technology Level I Certificate: (Non-transcripted)**

[L150/99999/0934.40/46.0301]

IET 401A	Introduction to Electricity	2.5
IET 401B	Industrial Basic Controls	2.5
IET 403A	Electrical Motors and Controls I	2.5
IET 403B	Electrical Motors and Controls II	2.5
IET 405	National Electrical Code	3
IET 407	Electrical Blueprints	3

**Total units for the certificate** **16**

**Strongly recommended:**

IET 482	Internship in Industrial Electricity	1
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**Industrial Electrical Technology Level II Certificate****Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Integrate and apply concepts and skills related to static devices and motor control system design.
2. Demonstrate the ability to translate blueprint and ladder diagrams and employ this information to program, verify and troubleshoot faults related to programmable logic controllers (PLCs).
3. Transfer these skills and abilities in order to obtain gainful employment in the field of industrial electricity.

**Requirements for the Industrial Electrical Technology Level II Certificate:**

[L151/15317/0934.40/46.0301]

Same requirements as for Level One Certificate, <i>plus:</i>		
IET 409	Static Devices	3
IET 411	Programmable Logic Controllers	3
IET 413	Intermediate Programmable Logic Controllers	3
IET 415	Advanced Electricity Laboratory	2

**Total units for the certificate** **27**

**Strongly recommended:**

IET 482	Internship in Industrial Electricity	1
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**Industrial Electrical Technology Level III Certificate****Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Troubleshoot and synthesize the knowledge, skills and abilities in order to obtain gainful employment in the field of industrial electricity, including compliance with OSHA standards.
2. Demonstrate critical thinking and problem solving appropriate within the field of industrial electricity as it relates to light and heavy industry, construction, and utility companies.
3. Communicate professionally regarding industrial electricity as it relates to programmable logic controllers (PLC).

**Requirements for the Industrial Electrical Technology Level III Certificate:**

[T154/20700/0934.40/46.0301]

Same as the major requirements for the A.S. Degree.

**Total units for the certificate** **35**

**Strongly recommended:**

IET 482	Internship in Industrial Electricity	1
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**Electromechanical Technology Level I Certificate****Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Understand the fundamental principles of electricity, industrial basic controls, and electrical motors.
2. Interpret blueprints and utilize the applications of motor controls in order to obtain gainful employment in the field of industrial electricity.
3. Understand the basics of hydraulic power, basic circuits, and functional circuits.

**Requirements for the Electromechanical Technology Level I Certificate (Non-transcripted)**

[L153/99999/0935.00/15.0499]

CIS 1	Introduction to Computer Information Systems	3
IET 401A	Introduction to Electricity	2.5
IET 401B	Industrial Basic Controls	2.5
IET 407	Electrical Blueprints	3
IETELMT 430	Hydraulic Fundamentals	2
IETELMT 432	Electrical Control of Hydraulic Systems	2

**Total units for the certificate** **15**

**INTERIOR DESIGN**

The Interior Design curriculum is planned both as professional preparation for those entering the interior design field and as a transfer program for students planning to transfer to a four-year college. Students receive a strong background in color, design principles, furniture construction and design, architectural materials, furniture layout, space planning, business principles, computer aided design, and the historical development of furniture, architecture, art, and decorative arts.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Transfer to a four-year college where they may obtain a bachelor's degree in interior design.
2. Obtain career advancement in a wide variety of positions in the field of interior design.
3. Understand the social, economic, cultural, organization and technological systems that are integral parts of the interior design industry.
4. Utilize the skills included in their general education studies, in addition to the interior design training to increase opportunities for employment.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

**Major requirements for the Associate in Science Degree:**

[S270/04794/1302.00/50.0408]		Units
FASHD 45	Design Fundamentals for Fashion and Interiors	3
FASHM 60	Textiles	3
ID 10	Introduction to Interior Design	3
ID 11	History of Western Architecture and Interiors I	3
ID 12	History of Western Architecture and Interiors II	3
ID 16	Quick Sketching for Interior Designers	2.5
ID 17	Introduction to Lighting	3
ID 21	Space Planning	3
ID 22	Interior Design Materials	3
ID 25	Interior Design Management	2
ID 30	Advanced Design Studio	3.5
ID 427	CAD for Set and Interior Design	3
ID 482	Industry Internship: Interior Design	1

**Total units for the major** **36**

**Recommended:**

ARTH 3	Survey of Western Art from Prehistory through the Middle Ages	3
BUSMKT 13	Professional Selling	3
COMSTD 2	Fundamentals of Effective Speaking	3
FASHM 12	Visual Merchandising	3

**Interior Design Certificate**

The Interior Design certificate program prepares students for entry-level employment opportunities working with professional designers on projects in residential and commercial design. The certificate also prepares students with the knowledge and skills to pursue industry certifications for career advancement.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Develop creative and functional solutions for client's design needs for residential and commercial projects.
2. Demonstrate knowledge of historical styles of architecture, interiors and decorative arts of both western and non-western cultures.
3. Generate design drawings (by hand and computer) and color boards (showing styles and materials) in a professional manner.
4. Apply knowledge of design theory to manipulate and organize interiors and solve interior design problems.
5. Develop creativity through an understanding and application of major art principles and elements (such as line, shape, color, balance, etc.).
6. Demonstrate an understanding of business practices, work ethics, professionalism and consumer marketing principles related to the field's products and services.
7. Communicate and justify, through written and oral presentations and portfolio development, the details, inspiration, problems, solutions, and the vision of their designs.

**Requirements for the Interior Design Certificate:**

[T270/20726/1302.00/50.0408]

Same as the major requirements for the A.S. Degree.

**Total units for the certificate**

**36**

## INTERSEGMENTAL GENERAL EDUCATION

### TRANSFER CURRICULUM (IGETC): UC OR CSU

The IGETC Certificate of Achievement is designed for students intending to transfer to either the California State University or the University of California. Completion of courses for this certificate allows students to transfer without the need, after transfer, to take additional lower-division general education courses to satisfy university general education requirements. The University of California does not accept IGETC for certain majors and/or at individual colleges within a UC campus. Depending on the major/field of interest, students may find it advantageous to take courses fulfilling either the CSU's general education requirements or those of the UC campus or college to which they plan to transfer.

- IGETC-CSU certification requires successful completion of a course in Area 1, Group C – Oral Communication.
- Verified competency in a Language Other than English (LOTE) is required only for IGETC-UC certification. Upon successful completion of the required courses/competencies, the certificate will be awarded for IGETC-CSU and/or IGETC-UC.

All courses must be completed with grades of "C" or better (C- grades are not acceptable), be a minimum of 3 semester units, and be on the IGETC list during the year in which the student takes the course. (i.e. students entering in Fall 2015 must follow the 2015-2016 or later IGETC requirements.)

**Student Learning Outcomes:**

Upon the successful completion of these programs, students should be able to:

1. Demonstrate effective communication and comprehension skills.
2. Demonstrate critical thinking skills in problem solving across the disciplines and in daily life.
3. Demonstrate knowledge of significant social, cultural, environmental and aesthetic perspectives.
4. Assess their knowledge, skills and abilities; set personal, educational and career goals; work independently and in group settings; demonstrate computer literacy; and cultivate self-reliance, financial literacy and physical, mental and social health.

**Requirements for the IGETC: CSU or UC Certificate:**

[T002/30502/4901.10/24.0101]

#### AREA 1 ENGLISH COMMUNICATION **6-9**

**Group A: English Composition** (Required CSU/UC)  
English 1A

**Group B: Critical Thinking-English Composition** (Required CSU/UC)  
English 1B

**Group C: Oral Communication** (Required CSU only - 1 course)  
Communication Studies 2, 6, 8

#### AREA 2 MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING **4-5**

(Required CSU/UC - 1 course)  
Mathematics 3, 25#\*, 60\*, 61\*, 65A\*, 65B, 75, 81, 85  
Social Science 10#\*  
Statistics 10

#### AREA 3 ARTS AND HUMANITIES **9-12**

(Required CSU/UC - 3 courses minimum, with at least one course from Arts and one from Humanities)

**A. Arts:**

Art History 1, 3, 5, 7, 9, 11  
Cinema 25, 26  
Dance 1  
Music 2A, 2B, 4, 5, 6, 21\*, 22<sup>X</sup>, 26\*  
Theatre Arts 1, 4, 5

**B. Humanities:**

American Sign Language 3, 4  
Arabic 3, 4  
Chinese 3, 4  
English 1C, 32, 33, 68, 70A, 70B, 71, 74#, 75A, 75B, 76, 77, 79, 80A, 80B, 81  
History 1, 2, 4#, 5, 6, 7, 9, 10, 12, 16#, 20, 25, 40<sup>X</sup>, 50, 51, 70, 71  
Humanities 5, 6, 20  
Philosophy 70, 72, 73, 77, 78, 80, 81, 82  
Spanish 3, 4, 8, 13, 14

#### AREA 4 SOCIAL AND BEHAVIORAL SCIENCES **9**

(Required CSU/UC - 3 courses minimum, from at least two different disciplines)

American Sign Language 18  
Anthropology 2, 3  
Child Development and Education 2\*, 4  
Communication Studies 12, 74  
Economics 1\*, 2, 4, 8  
Geography 1\*, 3, 10, 11<sup>X</sup>  
Gerontology 18\*  
History 4#, 5, 6, 7, 9, 10, 12, 16#, 17, 18, 19, 20, 37, 40<sup>X</sup>, 50, 51, 70, 71  
Political Science 1, 2, 4, 7, 10, 21<sup>+</sup>, 25, 32<sup>+</sup>  
Psychology 1, 20\*, 25\*, 65  
Sociology 10, 14, 15<sup>∞</sup>, 16\*, 18\*, 25, 26, 70

#### AREA 5 PHYSICAL AND BIOLOGICAL SCIENCES **7-10**

(Required CSU/UC - 2 courses minimum, with at least one Physical Science course and one Biological Science course, one of which must include a laboratory. Lab courses are underlined.)

**A. Physical Sciences:**

Astronomy 26\*, 35  
Chemistry 8\*, 9\*, 10\*, 12\*, 24A\*, 24B\*, 70, 75A, 75B  
Earth Science 1, 1 & 1L, 5\*, 5 & 5L\*  
Geography 4, 4 & 5, 6<sup>∞</sup>  
Geology 1, 2  
Physical Science 10  
Physics 5\*, 5 & 6\*, 20A\*, 20B\*, 30A\*, 30B\*, 44\*, 45\*, 46\*, 47\*

**B. Biological Sciences:**

Anthropology 1, 1 & 1L  
Biology 1\*, 2, 10\*, 12, 20, 22, 23, 23 & 23L, 61, 62, 63



**AREA 6 LANGUAGE OTHER THAN ENGLISH (Required UC only) 0-4**

Students transferring to the UC are required to demonstrate competency (proficiency) in a language other than English equal to two years of high school study. Competence may be demonstrated through one of the following mechanisms:

1. Satisfactory completion of two years of high school coursework (U.S. high school or high school where the language of instruction is English) in a language other than English, with a grade of "C-" or better in each course. The two years must be in the same language.
2. Satisfactory completion of a course (or courses) at a college or university with a grade of "C" (2.0) or better in each course.
3. Satisfactory completion, with "C" (2.0) grades or better, of two years of formal schooling at the sixth grade level or higher in an institution where the language of instruction is not English. Appropriate documentation must be presented to substantiate the required coursework was completed.
4. Satisfactory score on the SATII: Subject Test in languages other than English.
5. Satisfactory score, 3 or higher, on the College Board Advanced Placement examinations in languages other than English.
6. Satisfactory score, 5 or higher, on the International Baccalaureate Higher Level Examinations in language other than English.
7. Satisfactory completion of an achievement test administered by a community college, university, or other college in a language other than English.
8. If an achievement test is not available, a faculty member associated with a U.S. regionally accredited institution of higher education can verify a student's competency.
9. Language other than English "O" Level exam with a grade of "A", "B", or "C".
10. Language other than English International "A" Level exam with a score of 5, 6, or 7.
11. A Defense Language Institute language other than English course which is indicated as passed with a "C" or higher on the official transcript.

**Chaffey courses that meet this requirement are:**

ASL 2	Elementary American Sign Language	4
ARABIC 2	Elementary Modern Standard Arabic	4
CHIN 2	Elementary Mandarin Chinese	4
FR 2	Elementary French 2	4
SPAN 2	Elementary Spanish II	4

(ASL 3 or 4, or ARABIC 3 or 4, or CHIN 3 or 4, or SPAN 3, 4, or 4SS may be used to validate this requirement.)

**Total units for the certificate 35-49**

- \* = Transfer credit may be limited by either CSU or UC, or both.
- # = Course must be completed Fall 2003 or later
- ∞ = Course must be completed Spring 2005 or later
- ° = Course must be completed Fall 2005 or later
- × = Course must be completed Spring 2006 or later
- = Course must be completed Spring 2007 or later
- + = Course must be completed Fall 2012 or later

*COURSES MAY COUNT IN ONLY ONE AREA EXCEPT COURSES IN AREA 6 MAY ALSO COUNT IN AREA 3B*

**CSU REQUIREMENT IN U.S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS**  
Requires 2 courses: Political Science 1, and History 17 or 18 or 37.



## JOURNALISM ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts for Transfer (AA-T) degree in Journalism prepares students for transfer to four-year colleges and universities, and for eventual careers in mass media. Students learn the major theories and processes within the areas of writing, photography and publication design. Course offerings include journalism practice and theory, English, photography, communication studies, and computer skills.

The program is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four-year institution to complete their bachelor's degree. Successful completion of the Associate in Arts in Journalism for Transfer guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree.

The goals and outcomes for the Journalism major include the following:

1. Prepare students for seamless transfer to a CSU to major in journalism.
2. Prepare students for advanced studies within the field of journalism.

To obtain the Journalism AA-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course. "P" (pass) grades are not acceptable for courses in the major.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Transfer to a CSU for completion of a major in journalism.
2. Understand the legal and ethical concerns of journalism.
3. Demonstrate objectivity, accuracy, completeness, clarity, balance, fairness in journalism.
4. Apply the elements of the writing process (inventing, research, drafting, revising, editing, proofreading) to any given writing assignment both in the academic and professional spheres.
5. Convey a message using words, pictures, and graphics.

**Major requirements for the Associate in Arts for Transfer Degree** Units  
[A344/32504/0602.00/09.0401]

**Required (9 units):**

COMSTD 12	Mass Communication and Society	3
JOUR 10	Newswriting	3
JOUR 30	Student Media Practicum I	3

**List A – Select one (3 units):**

JOUR 11	Multimedia Reporting	3
JOUR 31	Student Media Practicum II	3

**List B – Select two (6-8 units):**

COMSTD 8	Fundamentals of Speech Communication	3
COMSTD 72	Logic and Argumentation	3
ECON 2	Principles of Macroeconomics (or ECON 4, Principles of Microeconomics)	3
ENGL 1B	Advanced Composition and Critical Thinking	3
PHIL 75	Symbolic Logic	3
PHOTO 10	Beginning Photography	4
PS 1	American Politics	3
PS 10	Comparative Politics	3
STAT 10	Elementary Statistics (or SCSCI 10, Statistics for Social Science)	4

**Units for the Major 18-20**  
**Units that may be double-counted 6-9**  
**plus CSU General Education-Breadth or IGETC Pattern 37-39**  
**plus transfer-level course electives (as needed) 7-14**  
**Total Units Required for Degree 60**

**Journalism Certificate**

The Journalism certificate is designed to provide students an opportunity to sample the cross-curricular course offerings at the college in preparation for a career in the mass media. The program is well suited for 2-year students planning to enter the fields of writing, photography, and design for publication directly, as well as for those planning to transfer to a 4-year degree program in journalism or mass communications. Course offerings include Journalism practice and theory, English, Photography, computer skills and Communication Studies.

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Be prepared for an entry-level position in journalism, public relations, multi-media writing, or other related fields.
2. Understand the legal and ethical concerns of journalism.
3. Demonstrate objectivity, accuracy, completeness, clarity, balance, fairness in journalism.
4. Apply the elements of the writing process (inventing, research, drafting, revising, editing, proofreading) to any given writing assignment both in the academic and professional spheres.
5. Convey a message using words, pictures, and graphics.

**Requirements for the Journalism Certificate:**

		Units
[L336/04763/0602.00/09.0401]		
CIS 1	Introduction to Computer Information Systems	3
COMSTD 12	Mass Communication and Society	3
ENGL 1A	Composition	3
JOUR 10	Newsriting	3
JOUR 11	Multimedia Reporting	3
JOUR 30	Student Media Practicum I	3
PHOTO 10	Beginning Photography	4
	(or PHOTO 7, Introduction to Digital Photography)	

**Plus a minimum of three units from the following:**

ART 63	Introduction to Graphic Design	4
BRDCAST 3	Introduction to Electronic Media	3
ENGL 7A	Creative Writing: Short Fiction	3
ENGL 7E	Creative Writing: Nonfiction	3
ENGL 35	Literary Magazine Production	4
JOUR 31	Student Media Practicum II	3
PHOTO 20	Photography for Media	4
PHOTO 21	Public Relations Photography	2

**Total units for the certificate** **25**



## KINESIOLOGY ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Kinesiology for Transfer at Chaffey College prepares students to transfer into a four-year institution to pursue a baccalaureate degree in Kinesiology, Exercise Science, or Physical Education. This major will introduce students to many areas of study including health, fitness, physical education, therapeutic/sport medicine, and coaching/sport instruction. Curriculum in this degree will advance the knowledge through the multi-disciplinary study of human movement, exercise and the relationships between physical activity and health.

The program is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four-year institution to complete their bachelor's degree. Successful completion of the Associate in Arts in Kinesiology for Transfer guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree.

The goals and outcomes for the Kinesiology for Transfer major include the following:

1. Prepares students for seamless transfer to a CSU to complete a Kinesiology, Exercise Science or Physical Education Baccalaureate degree.
2. Introduces students to health, fitness, physical education, therapeutic/sports medicine, and coaching/sport instruction.
3. Improves and maintains a learner-centered environment for education that includes a dynamic and accessible vocational and academic program respectful of each student through varied instructional delivery methods.
4. Provides contemporary continuing education to career professionals.

To obtain the Kinesiology AA-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course. "P" (pass) grades are not acceptable for courses in the major.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Demonstrate knowledge of rules, strategies, techniques, and etiquette of various activities to promote lifelong fitness.
2. Define the many health related and skill related fitness components in an exercise program that will be geared toward specific fitness goals like weight control, cardiovascular endurance, muscular development, and/or sport specific movements.
3. Identify risk factors of communicable and hypokinetic diseases and design appropriate nutritional plans for various degrees of activity and weight control.
4. Recognize various career opportunities in the field of human movement.
5. Implement appropriate aerobic and anaerobic exercises and the metabolic needs for that particular activity.

### Major requirements for the Associate in Arts for Transfer Degree

[A346/33231/1270.00/31.0505]

**Required (11 units):**

KINLEC 18	Introduction to Kinesiology	3
BIOL 20	Human Anatomy	4
BIOL 22	Human Physiology	4

**Movement Based Courses**

Select three courses (maximum of one from each category): Units

**Aquatics:**

KINACT 9	Swimming	1
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**Combatives:**

KINACT 31	Introduction to Self-Defense and Personal Safety	1
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**Fitness:**

KINACT 24	Low Impact Aerobics	1
KINACT 28	Yoga	1

**Individual Sports:**

KINACT 1	Beginning Tennis	1
KINACT 2	Advanced Tennis	1
KINACT 16	Volleyball	1
KINACT 20	Basketball	1
KINACT 22	Soccer	1

**List A: Select two (7-10 units)**

CHEM 9	Health Science Chemistry	5
	(or CHEM 10, Introductory Chemistry, 4 or CHEM 12, Elementary Organic and Biochemistry, 4 or CHEM 24A, General Chemistry I)	
KINLEC 16	First Aid	3
PHYS 20A	Algebra/Trigonometry College Physics I	4
	(or PHYS 45, Physics for Scientists and Engineers I, 5)	
STAT 10	Elementary Statistics	4
	(or SCSCI 10, Statistics for Social Science)	

<b>Units for the Major</b>	<b>21-24</b>
<b>Units that may be double-counted</b>	<b>9</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>37-39</b>
<b>plus transfer-level course electives (as needed)</b>	<b>6-11</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## KINESIOLOGY/PHYSICAL EDUCATION

The Physical Education AA provides basic courses to prepare students for continued study. Consideration has been given to transfer requirements of local colleges and universities.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate knowledge of rules, strategies, techniques, and etiquette of various activities to promote lifelong fitness.
2. Define the many health related and skill related fitness components in an exercise program that will be geared toward specific fitness goals like weight control, cardiovascular endurance, muscular development, and/or sport specific movements.
3. Utilize components of the wellness model, self-management skills and the different factors that will assist in behavior modification.
4. Effectively communicate in a variety of competitive and noncompetitive environments.
5. Identify risk factors of communicable and hypokinetic diseases and design appropriate nutritional plans for various degrees of activity and weight control.
6. Recognize various career opportunities in the field of human movement.
7. Implement appropriate aerobic and anaerobic exercises and the metabolic needs for that particular activity.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

### Major requirements for the Associate in Arts Degree:

	Units
[S345/04767/0835.00/31.0501]	
BIOL 1 General Biology (or BIOL 20, Human Anatomy or BIOL 424 Anatomy and Physiology, 3 and BIOL 424L Anatomy and Physiology Laboratory, 1)	4
NF 5 Nutrition for Life	3
KINLEC 15 Diet and Fitness	3
KINLEC 16 First Aid (or KINLEC 17, First Aid and Emergency Response to Community Disasters)	3
KINLEC 18 Introduction to Kinesiology	3

### Plus six units from the following:

BIOL 22	6
CHEM 10	
KINLEC 2, 11, 13, 14, 24, 32	
NF 15	

### Plus three units from the following:

KINACT 1, 2, 9, 16, 17, 20, 22, 23, 24, 25, 28, 29A, 29B, 29C, 31, 35	3
KINTM 1, 1A, 2, 3, 3A, 4, 5, 6, 6A, 9, 11, 12, 13, 14, 15, 16, 18, 19, 27, 41, 42, 44, 45, 47, 51, 52, 53, 54, 55, 56A, 56B, 57A, 57B, 59, 61A, 62, 62A, 64, 65, 65A, 66A, 67A, 68.	

**Total units for the major 25**

## KINESIOLOGY/PHYSICAL EDUCATION CERTIFICATE PROGRAMS

### Athletic Training

The Athletic Training Certificate prepares students for entry-level employment assisting an athletic trainer or as a physical therapy aide in high school, college, private practice or clinical settings. The certificate also provides courses to prepare students for continued study in the field of athletic training with the goal of attaining a career in fields such as athletic trainer, athletic rehabilitation, or physical therapy. Consideration has been given to transfer requirements of Athletic Training Education programs at local colleges and universities.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Understand the principles and protocols of athletic training during sports activities with an emphasis on prevention, care, evaluation, treatment, and rehabilitation.
2. Effectively communicate in a variety of competitive and noncompetitive environments.
3. Recognize various career opportunities in the field of human movement and pursue entry-level employment as a physical therapy aide or assisting an athletic trainer.

### Requirements for the Athletic Training Certificate (Non-transcribed):

	Units
[E375/99999/1228.00/51.0913]	
KINLEC 2 Introduction to Athletic Training	3
KINLEC 19 Practical Applications in Athletic Training I	2
KINLEC 21 Practical Applications in Athletic Training II	2
KINLEC 22 Practical Applications in Athletic Training III	2.5

### Plus eight units from the following:

BIOL 1 General Biology	4
BIOL 20 Human Anatomy	4
BIOL 22 Human Physiology	4

**Total units for the certificate 17.5**

### Coaching

The Coaching Certificate prepares students for employment as walk-on head coaches, and is also for those individuals interested in pursuing coaching as a career.

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate knowledge of rules, strategies, techniques, and etiquette of playing and coaching competitive sports.
2. Effectively communicate in a variety of competitive and noncompetitive environments.
3. Recognize coaching career opportunities and pursue employment as a walk-on head coach.

### Requirements for the Coaching Certificate:

	Units
[L374/15531/0835.60/31.0504]	
KINLEC 2 Introduction to Athletic Training	3
KINLEC 13 Professional Activities: Coaching Team Sports	3
KINLEC 15 Diet and Fitness	3
KINLEC 16 First Aid (or KINLEC 17, First Aid and Emergency Response to Community Disasters)	3
KINLEC 18 Introduction to Kinesiology	3

**Total units for the certificate 15**

## LAW: PRE-LAW STUDIES

Chaffey College has been chosen to participate in a Pre-Law initiative sponsored by the California State Bar's Council on Access and Fairness (COAF), which provides a pathway from community college to six California law schools and their undergraduate schools. Chaffey College students who participate in the Pathway to Law School program are designated as COAF Scholars, earning them the benefits provided by the pathway initiative. The participating law schools are Loyola Law School, Los Angeles, Santa Clara University, University of California, Davis, University of California, Irvine, University of San Francisco and University of Southern California.

Students must complete a major, earn an Associate's Degree, complete seven courses specified by the Council on Access and Fairness (most of which can also be used to fulfill the general education requirement for the Associate's Degree), and achieve transfer to one of the participating universities. Students are also strongly advised to participate in an approved public interest/civic activity. Interested students should contact a Chaffey College counselor or a member of the Chaffey College Legal Studies faculty for more information on the Pathway to Law School program. Detailed information is available at [www.chaffey.edu/prelaw/index.shtml](http://www.chaffey.edu/prelaw/index.shtml). A registration form is available online at [www.chaffey.edu/prelaw/doc\\_links.shtml](http://www.chaffey.edu/prelaw/doc_links.shtml).

## MANAGEMENT, MARKETING, AND MERCHANDISING

(See Business)



## MATHEMATICS ASSOCIATE IN SCIENCE FOR TRANSFER

The Mathematics Associate of Science for Transfer degree provides students with sufficient understanding of mathematical concepts, skills, and applications to attain upper division status in mathematics at a four-year college or university, majoring in Mathematics, Physics, Engineering, or Computer Science.

The program is suited to the needs of students who will complete their education at Chaffey College with an A.S. degree, as well as those students who will complete their Chaffey A.S. degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Mathematics guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of mathematics, engineering, statistics, actuarial science, business and management, law enforcement, government, and education.

To obtain the Mathematics Associate of Science for Transfer degree, students must:

- Complete the following major requirements with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern general education requirements.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Develop the ability to reason mathematically in preparation for subsequent studies in mathematically related fields.
2. Develop the ability to reason mathematically to gain an appreciation for the usefulness of mathematics.
3. Demonstrate mathematical skills that prepare for participation in all domains of society: civic, economic, and political.

**Major requirements for the Associate in Science Transfer (AS-T) Degree:** Units [S291/30717/1701.00/27.0101]

### Core

MATH 65A	Calculus I	4
MATH 65B	Calculus II	4
MATH 75	Calculus III	5

### A minimum of 7 Units from List A and List B, with at Least 4 Units from List A

MATH 81	Linear Algebra	4
MATH 85	Differential Equations	4

### List B

CISPROG 1	Introduction to Computer Programming	3
COMPSCI 21	Fundamentals of C++ Programming	3
ENGIN 30	Engineering Application of Digital Computation	3
PHYS 45	Physics for Scientists and Engineers I	5
STAT 10	Elementary Statistics	4

<b>Units for the major</b>	<b>20-22</b>
<b>plus CSU General Education or IGETC Pattern</b>	<b>38</b>
<b>plus transfer-level course electives (as needed)</b>	<b>0-2</b>
<b>Total units Required for Degree</b>	<b>60</b>

## MULTIMEDIA

(See Art)



## MUSIC ASSOCIATE IN ARTS FOR TRANSFER

The Music program of study prepares students for transfer to four-year colleges and universities and for careers in music, music education, and related fields. Students learn the major theories and artistic movements in music from the ancient to the modern world, and evaluate the influences that social, political, and religious institutions have in the creation of music. The program covers technical skills and concepts and technologies involved in the creation of music. Music history, theory disciplines and practices are reviewed. The program emphasizes critical thinking in the creation, analysis and interpretation of music. Students should consult with the intended transfer institution to determine the appropriate courses to complete at Chaffey. The program is suited to the needs of students who will complete their education at Chaffey College with an A.A. degree, as well as those students who will complete their Chaffey A.A. degree and transfer to a four-year institution to complete their bachelor's degree. Successful completion of the Music degree guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in music.

The goals and outcomes for the Music major include the following:

1. Prepare students for seamless transfer to a CSU to complete a Music Baccalaureate degree.
2. Provide students with a core body of knowledge in music, with advanced topics that provide breadth of knowledge, build on the core, and expose students to current and historical music.
3. Prepare students for advanced studies within the field of Music.

To obtain the Music A.A.-T degree, students must complete the following:

1. A minimum of 22 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
2. 60 semester CSU-transferable units using the California State University-General Education-Breadth pattern (CSU-GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
3. No more than 60 semester units are required.



**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Engage creatively with and think originally about the study of music.
2. Communicate in speech and writing about the history, theories, disciplines, and practices of traditional art and popular music forms.
3. Recognize diverse individuals, social forces, and musical styles of the world's cultures through the study of music.
4. Apply critical thinking in the analysis, composition, and interpretation of music.
5. Be empowered to engage in self-directed musical practice and performance.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

**Major requirements for the Associate in Arts for Transfer Degree** Units  
[A305/33233/1004.00/50.0901]

**Required Core (16 units)**

MUSIC 5	Music Theory and Musicianship I	4
MUSIC 6	Music Theory and Musicianship II	4
MUSIC 7	Music Theory and Musicianship III	4
MUSIC 8	Music Theory and Musicianship IV	4

**Plus 2 units (0.5 units per semester) of Applied Music Units**

MUSIC 58	Applied Music	0.5
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**Plus 4 to 6 units from the following (may be taken up to 4 times):**

MUSIC 75	Concert Choir	1
MUSIC 76	Chamber Choir	1.5
MUSIC 77	Community Concert Band	1
MUSIC 78	Jazz Band	1

Note: All students wishing to major in music are advised to begin the major in the first semester of enrollment. It is otherwise impossible to complete the program in two years. Enrollment in MUSIC 5, MUSIC 35 (advisory), applied music (Music 58), and an ensemble performance class (MUSIC 75, 76, 77, or 78) should commence the first semester.

Additional course recommendations: Music 2A and Music 2B

<b>Units for the Major</b>	<b>22-24</b>
<b>Units that may be double-counted</b>	<b>0</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>37-39</b>
<b>plus transfer-level course electives (as needed)</b>	<b>0-1</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## MUSIC - COMMERCIAL

The Commercial Music Associate Degree is designed to give students a two-year foundation in professional and commercial music concepts and practices, with an emphasis on theory and vocational applications. Successful completion of the program as shown, along with the General Education requirements, may also enable students to transfer to a four-year college or university.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Know and apply technical skills, concepts and technologies in the creation of commercial music.
2. Apply critical thinking in the creation, analysis and interpretation of commercial music.
3. Understand fundamental business mechanisms in the commercial music industry and their implications for career development in the field.
4. Engage creativity in the study of commercial music, developing original thinking.
5. Have greater confidence in their own potential to express themselves creatively through music.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

**Major requirements for the Associate in Science Degree:** Units

[S305/04779/1005.00/10.0203]

MUSIC 5	Music Theory and Musicianship I	4
MUSIC 6	Music Theory and Musicianship II	4
MUSIC 10	Songwriting and Commercial Harmony	3
MUSIC 15	Introduction to the Music Business	3
MUSIC 16	Introduction to Recording Arts	3
MUSIC 17	Electronic Music	3
MUSIC 18	Computer-Assisted Recording and Editing	3

**Plus one course from the following:**

MUSIC 21	History of Jazz	3
MUSIC 22	History and Survey of Rock Music	3

**Total units for the major** **26**

## NURSING

Chaffey College offers a career ladder path in Nursing where students can start with the Nursing Assistant program, follow the ladder to earn their Vocational Nursing Certificate, and then may choose to proceed to the Associates Degree in Nursing program. Students may also choose not to follow the career ladder, but meet the program requirements for the Vocational Nursing or Associate Degree Nursing programs. While students are not required to follow the ladder format, they must meet the entrance requirements for each program before applying to that program.

### NURSING ASSISTANT

The Nursing Assistant (NA) program prepares students for entry-level employment in health care facilities. Nursing Assistants are important members of the health care team, providing direct care to patients in long-term care settings. All Nursing Assistants function under the supervision of a Licensed Nurse. Programs are approved by the California Department of Health Services. Upon completion of the Nursing Assistant program, the student is eligible to take the state examination for Certified Nurse Assistant (CNA) for a fee. The CNA may then complete courses for certification in Home Health Aide (HHA) and/or Acute Care Technician (ACT).

**The application process for the NA program is as follows:**

1. Attend a mandatory information meeting to obtain the application packet.
2. Submit application to Chaffey College and to the Nursing Assistant Program.
3. Submit background check verification to the Department of Health Services and the Health Sciences Office.

**Enrollment in the NA program is subject to completion of the following requirements:**

1. Admission to Chaffey College.
2. Criminal background screening (details provided at mandatory information meeting).
3. Evidence of satisfactory physical and emotional health as determined by health examination.
4. Current cardiopulmonary resuscitation (CPR) certification as an American Heart Association Healthcare Provider. The CPR card must be updated annually. Details about times and locations of CPR classes are provided at mandatory information meetings.
5. Submission of health form, laboratory results, and appropriate CPR card at the mandatory orientation meeting. Details provided at the information meeting.
6. The student must be at least 16 years of age.

**Student Learning Outcomes:**

Upon successful completion of this certificate, the students should be able to

1. Demonstrate the skills and knowledge needed to pass the California state nursing assistant certification examination.
2. Perform basic nursing and personal care skills for residents from diverse and multicultural backgrounds.
3. Use critical thinking as a basis for effective decision-making.
4. List and discuss various career opportunities available to them through professional development.
5. Promote resident's rights and independence.
6. Communicate effectively and with residents, families and members of the health care team.

**Requirements for the Chaffey College NA Certificate (Non-transcripted):** Units [E234/99999/1230.30/51.3902]

NURAST 400	Nursing Assistant	3.5
NURAST 400L	Nursing Assistant Laboratory	2
NURAST 405	Nursing Assistant Skills Laboratory	0.5
NURAST 450	Professional Development for the Nursing Assistant	1

**Total units for the Chaffey College certificate:** 7

**Notes:**

1. All courses must be completed with a minimum grade of "C".
2. The college does not provide transportation to clinical facilities.

**HOME HEALTH AIDE**

To enter the Home Health Aide (HHA) program, the student must have an active California State Certified Nursing Assistant (CNA) certificate. The Home Health Aide program is a state certified add-on certificate to the CNA certificate that prepares students for entry level positions with home health agencies. The Home Health Aide courses prepare the CNA to provide care independently in the patient's home or in assisted living, independent living, and hospice environments.

**The application process for the HHA program is as follows:**

1. Attend a mandatory information meeting to obtain the application packet.
2. Submit application to Chaffey College and to the Nursing Assistant Program.
3. Submit application to the Department of Health Services and verification to the Health Sciences Office.

**Enrollment in the HHA program is subject to completion of the following requirements:**

1. Admission to Chaffey College.
2. Evidence of satisfactory physical and emotional health as determined by health examination.
3. Current cardiopulmonary resuscitation (CPR) certification as an American Heart Association Healthcare Provider. The CPR card must be updated annually. Details about times and locations of classes provided at mandatory information meetings.
4. Submission of health form and appropriate CPR card before the first day of class.
5. Submit a copy of the state CNA certification prior to enrolling in NURAST 420/420L (Home Health Aide courses).

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate skills that foster critical thinking and reflection appropriate to a Home Health Aide environment.
2. Demonstrate personal care skills necessary for working in the patient's home, assisted living, independent living, and hospice environments.
3. Demonstrate professional communication in the patient's home, in assisted living, independent living, and hospice environments.

**Requirements for the Chaffey College NA/HHA Certificate:** Units**(Non-transcripted)**

[E235/99999/1230.80/51.2602]

NURAST 400*	Nursing Assistant	3.5
NURAST 400L*	Nursing Assistant Laboratory	2
NURAST 405*	Nursing Assistant Skills Laboratory	0.5
NURAST 420	Home Health Aide	1.5
NURAST 420L	Home Health Aide Laboratory	1
NURAST 450*	Professional Development for the Nursing Assistant	1

**Total units for the Chaffey College certificate:** 2.5-9.5

\*Students must take these four NURAST classes and pass the California State Certified Nursing Assistant certification test or provide proof of a current California State Certified Nursing Assistant Certificate.

**Strongly Recommended:**

BIOL 30	Beginning Medical Terminology	3
ENGL 475	Fundamentals of College Reading and Writing (or ESL 475, Fundamentals of College Reading and Writing for ESL Students)	4

**Notes:**

1. All courses must be completed with a minimum grade of "C".
2. The college does not provide transportation to clinical facilities.

**ACUTE CARE TECHNICIAN**

To enter the Acute Care Technician (ACT) program a student must have an active California State Certified Nursing Assistant (CNA) certificate or equivalent. The Acute Care Technician program prepares the nursing assistant to function in acute care settings including hospitals and sub-acute facilities. The Acute Care Technician will gain skills for the Vocational Nursing Program at Chaffey College.

**The application process for the ACT program is as follows:**

1. Attend a mandatory information meeting to obtain the application packet.
2. Submit application to Chaffey College and to the Acute Care Technician Program.
3. Submit active California CNA certificate or equivalent documentation to the Health Sciences Office.

**Enrollment in the ACT program is subject to completion of the following requirements:**

1. Admission to Chaffey College.
2. Evidence of satisfactory physical and emotional health as determined by health examination.
3. Current cardiopulmonary resuscitation (CPR) certification as an American Heart Association Healthcare Provider. The CPR card must be updated annually. Details about times and locations of classes provided at mandatory information meetings.
4. Submission of health form and appropriate CPR card at the mandatory orientation meeting, the time and date of which is provided at the information meeting.
5. Submit a copy of the state CNA certification or equivalent documentation prior to enrolling in NURACT 420/420L (Acute Care Technician courses).
6. Be a high school graduate, or have passed the GED, or have passed the High School Proficiency Examination, or have an associates degree or higher.
7. Provide official transcripts from other colleges attended. International transcripts (high school and college) require AERC, IERF, or other approved agency evaluation.
8. Complete a criminal background screening (details provided at mandatory meeting).

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate skills that promote career development in acute-care settings.
2. Function as an effective member of the health care team in acute care settings.
3. Communicate effectively with patients, visitors and other members of the health care team in acute care settings.

<b>Requirements for the Chaffey College NA/ACT Certificate:</b>		Units
<b>(Non-transcripted)</b>		
[E236/99999/1230.30/51.3902]		
NURACT 420	Acute Care Technician	4
NURACT 420L	Acute Care Technician Laboratory	2
NURACT 450	Professional Development for the Acute Care Technician	1
NURAST 400*	Nursing Assistant	3.5
NURAST 400L*	Nursing Assistant Laboratory	2
NURAST 405*	Nursing Assistant Skills Laboratory	0.5
NURAST 450*	Professional Development for the Nursing Assistant	1
<b>Total units for the Chaffey College certificate:</b>		<b>7-14</b>

\*Students must take these four NURAST classes or equivalent, or provide proof of a current California State Nursing Assistant Certificate.

#### Notes:

1. All courses must be completed with a minimum grade of "C".
2. The college does not provide transportation to clinical facilities.

### NURSING: VOCATIONAL

The Vocational Nurse is a caregiver in acute and extended care facilities. LVN's are also employed in home health care, emergency clinics, and as reviewers of health care utilization.

The Vocational Nursing (VN) program is accredited by the State of California Board of Vocational Nursing and Psychiatric Technician Examiners (BVNPT). Upon completion of the program, students are eligible to apply to take the Board of Vocational Nursing and Psychiatric Technicians' licensing examination to practice in the State of California as a Licensed Vocational Nurse.

The VN program is three semesters in length and begins each fall and spring semester. The program consists of lecture and laboratory instruction in actual nursing situations.

Applicants with a record of any felony are subject to review by the Board of Vocational Nurse and Psychiatric Technician Examiners (BVNPT) before a license can be granted. Contact the BVNPT prior to submitting an application to the VN program to clarify eligibility for licensure upon completing the program for a fee.

#### Enrollment in the VN program is subject to completion of the following requirements:

1. Admission to Chaffey College.
2. Be a high school graduate, or have passed the GED, or have passed the High School Proficiency Examination, or have an associates degree or higher.
3. Provide official transcripts from other colleges attended. International transcripts (high school and college) require AERC, IERF, or other approved agency evaluation.
4. Physical and emotional health as evidenced by a satisfactory health examination, proof of immunizations, and by passing both a criminal background check and a drug screening test.
5. Completion of Nursing: Vocational 401 with a minimum grade of C.
6. Completion of Mathematics 401 or equivalent with a minimum grade of C.
7. Completion of Biology 424 (or Biology 20 and 22) or equivalent with a minimum grade of C. Biology course(s) may not be over 5 years old at the time of application to the VN Program.
8. Current cardiopulmonary resuscitation (CPR) certification as an American Heart Association Healthcare Provider.
9. Current status as a California Certified Nursing Assistant, or completion of Nursing Assistant 400, 400L, 405, and 450 with minimum grades of C or P.

#### The application process for the VN program is as follows:

1. View the informational video available on the VN website at [www.chaffey.edu/healthsciences/nursing/nursingvn/](http://www.chaffey.edu/healthsciences/nursing/nursingvn/).
2. Make an appointment with a counselor in the Counseling Center.
3. Verify high school graduation or equivalent or higher as indicated above.
4. Demonstrate eligibility for English 475 via the Chaffey assessment process, or completion of English 575 or equivalent with a minimum grade of C.
5. Provide official copies of all previous college transcripts (must be on file).

6. Complete the VN application and submit. Applications for the VN program beginning in the Spring semester will be available the prior October and must be completed and submitted by the last business day in October. Applications for the VN program beginning in the Fall semester will be available the prior March and must be completed and submitted by the last business day in March.
7. Attend a mandatory orientation session, if selected.

#### Notes:

1. The selection process is based on completion of prerequisite courses and available space.
2. In order to continue in the program, students must earn a minimum grade of C in all program courses.
3. All required VN courses must be completed within five years. For students transferring to the VN program from another program, transferred VN courses may not be over five years old. (Subject competency may be demonstrated by an examination.)
4. The college does not provide transportation to clinical facilities.

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate the knowledge and skills necessary to provide safe and effective nursing care.
2. Pass the NCLEX State Board Examination.
3. Identify vital questions, problems or issues and communicate effectively other members of the health care team.
4. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Science Degree:</b>		Units
[S315/04789/1230.20/51.3901]		
NURVN 403	Fundamentals of Nursing	3
NURVN 403L	Fundamentals of Nursing Laboratory	2
NURVN 405	Beginning Medical-Surgical Nursing	4
NURVN 405L	Beginning Medical-Surgical Nursing Laboratory	3
NURVN 407A	Beginning Nursing Skills/Clinical Simulation Laboratory	1
NURVN 407B	Intermediate Nursing Skills/Clinical Simulation Laboratory	1
NURVN 407C	Advanced Nursing Skills/Clinical Simulation Laboratory	1
NURVN 409	Intermediate Medical-Surgical Nursing	4
NURVN 409L	Intermediate Medical-Surgical Nursing Laboratory	3
NURVN 411	Advanced Medical-Surgical Nursing	7
NURVN 411L	Advanced Medical-Surgical Nursing Laboratory	3
NURVN 413	Leadership for the Vocational Nurse	3
NURVN 413L	Leadership for the Vocational Nurse Laboratory	2
NURVN 415A	Growth/Development: Psychology Adult-Geriatric	1
NURVN 415B	Growth and Development of the Child	1
NURVN 417A	Critical Thinking and the Nursing Process I	1
NURVN 417B	Critical Thinking and the Nursing Process II	1
NURVN 421	Maternal and Child Health Nursing	4
NURVN 421L	Maternal and Child Health Nursing Laboratory	2
<b>Total units for the major:</b>		<b>47</b>

#### Required prerequisite courses:

BIOL 424 *	Anatomy and Physiology (or BIOL 20 *, Human Anatomy, 4 <i>and</i> BIOL 22 *, Human Physiology, 4)	3
MATH 401	Mathematics for Health Science	1
NURAST 400**	Nursing Assistant	3.5
NURAST 400L**	Nursing Assistant Laboratory	2
NURAST 405**	Nursing Assistant Skills Laboratory	0.5
NURAST 450**	Professional Development for the Nursing Assistant	1
NURVN 401*	Foundations of Vocational Nursing Practice	2

\* Must be taken within the previous 5 years.

\*\* Students must take the four NURAST classes above or provide proof of a current California State Nursing Assistant Certificate.

## Nursing: Vocational (VN) Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate the knowledge and skills necessary to provide safe and effective nursing care.
2. Pass the NCLEX State Board Examination.
3. Identify vital questions, problems or issues and communicate effectively other members of the health care team.

### Requirements for the Nursing: Vocational (VN) Certificate:

[T315/20722/1230.20/51.3901]

Same as the major requirements for the A.S. Degree and required prerequisite courses above.

**Total units for the certificate:**

**53-65**

### Vocational Nursing Advanced Placement

Contact the VN program coordinator for evaluation of nursing course work. Transfer students must meet all prerequisites for the VN program.

## NURSING: ASSOCIATE DEGREE

This program, leading to an Associate in Science Degree with a major in Nursing, is approved by the California Board of Registered Nursing and accredited by the Accrediting Commission for Education in Nursing, Inc., 3343 Peachtree Road N.E., Suite 850, Atlanta Georgia 30326; phone: (404) 975-5000; fax: (404) 975-5020; website: [www.acenursing.org](http://www.acenursing.org). The graduate is eligible to take the National Council for Licensure Examination (NCLEX) and - upon successful completion - become licensed as a Registered Nurse in the state of California. There are fees for obtaining licensure by examination or endorsement, interim permit, and biennial renewal. California law allows for the denial of registered nursing licensure on the basis of any prior convictions substantially related to nursing practice. See [www.rn.ca.gov/applicants/lic-exam](http://www.rn.ca.gov/applicants/lic-exam) and [www.rn.ca.gov/enforcement/convictions.shtml](http://www.rn.ca.gov/enforcement/convictions.shtml) for more information.

The curriculum is based upon the humanistic philosophy of Abraham Maslow, as well as major concepts of Erik Erikson's Developmental Theory, the Nursing Process and Therapeutic Communication. Nursing assists the individual and family in preventing or coping with threats to the individual's basic needs throughout the life cycle. Faculty believes learning is facilitated when students are actively involved in the learning process and assume responsibility for their own learning. Information about the program prerequisites – those requirements that must be completed prior to applying to the ADN program – can be obtained from our website ([www.chaffey.edu/healthsciences/nursing/nursingadn](http://www.chaffey.edu/healthsciences/nursing/nursingadn)), the Counseling Department, the Health Sciences Office (HS-145), or from attending an ADN information session offered the first Thursday of every month. The listed criteria is subject to change.

Once a student is ready to apply, he or she must pick up the ADN Application Instructions for Beginning or Advanced Placement Students from the Health Sciences Office (HS-145), or download it from the website. Six to eight weeks prior to the application period should be allowed for obtaining the information needed in these instructions. Application forms for admission to the ADN program are available online at [www.chaffey.edu/healthsciences/nursing/nursingadn/](http://www.chaffey.edu/healthsciences/nursing/nursingadn/) and must be submitted from September 1-30 (for program start the following Spring) or March 1-31 (for program start the following Fall). Should there be more qualified applicants than spaces available, general education coursework completed prior to application to the ADN program will be considered in the selection process. If students are not selected, they may reapply the next semester.

### Applicants to the ADN program must meet the following requirements:

1. Be a high school graduate, or have passed the GED, or have passed the high school proficiency exam, or have an Associate's Degree or higher.
2. Provide official transcripts from other colleges attended. International transcripts (high school and college) require AERC, IERF, or other approved agency evaluation.
3. Complete related nursing or biological science (physiology and microbiology) courses, which the student is applying toward the ADN course requirements, within the last five years.

4. Anatomy, Physiology, Composition, Microbiology, and Microbiology Lab must be completed at the time of application.
5. Prerequisite GPA must be 2.8 or higher. Cumulative GPA must be 3.0 or higher.

### Notes:

1. Prior to enrollment in the Nursing: A.D.N. program classes, students must provide evidence of physical and emotional health as determined by a satisfactory health examination by a licensed health care provider, and by passing both a criminal background check and a drug screening test. A pre-enrollment assessment of English, reading, math, and science must also be passed. Details about these requirements will be provided once students are accepted into the program.
2. In order to continue in the ADN program, students must earn a minimum grade of C in all nursing and other required courses.
3. The college does not provide transportation to clinical facilities.
4. Students with prior nursing education should refer to the Advanced Placement Program.
5. The nursing program must be completed within five (5) years of admission.
6. Current cardiopulmonary resuscitation card (CPR) is required prior to entering any clinical nursing class. This must be the "Health Care Provider" from the American Heart Association.
7. Medication calculation proficiency must be demonstrated by written examination prior to registration in each semester.

### Required General Education and additional courses:

BIOL 20*	Human Anatomy	4
BIOL 22*	Human Physiology	4
BIOL 23*	General Microbiology	3
BIOL 23L*	General Microbiology Laboratory	2
COMSTD 8	Fundamentals of Speech Communication (or COMSTD 2, Fundamentals of Effective Speaking, or COMSTD 4, Fundamentals of Interpersonal Communication, or COMSTD 6, Fundamentals of Small Group Communication)	3
ENGL 1A*	Composition	3
MATH 401	Mathematics for Health Science	1
PSYCH 25	Developmental Psychology: Lifespan Development	3
SOC 10	Introduction to Sociology (or COMSTD 74, Intercultural Communication, or ANTHRO 3, Introduction to Social and Cultural Anthropology)	3
	Humanities General Education	4

### Student Learning Outcomes:

Upon the successful completion of this program, students should be able to:

1. Achieve 90% or higher on the National Council Licensure Examination (NCLEX) by demonstrating appropriate analytical nursing skills, critical thinking abilities, and communication.
2. Demonstrate the components of the delivery of care: coordination, delegation, and prioritization to meet the needs of simulated and actual patients and their families, serving as clients' advocate.
3. Communicate effectively with patients, families, peers, and other members of the health team.
4. Practice and demonstrate, within the ethical and legal framework of nursing, personal accountability for own actions and professional growth.
5. Utilize the nursing process to provide appropriate care for actual and simulated patients that recognizes threats to physiological, psychological, spiritual, developmental and socio-cultural needs.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*



<b>Major requirements for the Associate in Science Degree:</b> [S310/04788/1230.10/51.3801]		Units
NURADN 6**	Clinical Nursing Skills	1.5
NURADN 12**	Nursing Process I	3
NURADN 12L**	Nursing Process I Laboratory	3.5
NURADN 13**	Mental Health and Psychiatric Nursing	2
NURADN 13L**	Mental Health and Psychiatric Nursing Laboratory	1
NURADN 25**	Nursing Process II	3
NURADN 25L**	Nursing Process II Laboratory	3
NURADN 26**	Maternal-Newborn Nursing	2
NURADN 26L**	Maternal-Newborn Nursing Laboratory	1.5
NURADN 34**	Nursing Process 3	4
NURADN 34L**	Nursing Process 3 Laboratory	3
NURADN 38**	Family-Child Nursing	2
NURADN 38L**	Family- Child Nursing Laboratory	1.5
NURADN 44**	Nursing Process IV	4.5
NURADN 44L**	Nursing Process IV Laboratory	5
NURADN 50**	Professional Issues in Nursing	1
<b>Total units for the major:</b>		<b>41.5</b>

\* Prerequisite Courses

\*\* Must be admitted to the ADN program before taking course.  
Courses are taken in numerical sequence.

#### **ADN Advanced Placement**

Prospective students for advanced placement must be transferring from another nursing program or have at least one year of nursing experience as a LVN in a health care setting. Acceptance for advanced placement is contingent upon available space in the program. To progress in the program, advanced placement students must earn a minimum grade of C/Pass in all nursing and other required courses.

#### **VN to RN: Degree Option**

Acceptance into this program is based on the following criteria:

1. Graduation from a Vocational Nursing Program with an active vocational nursing license.
2. Completion of NURADN 3 and NURADN 3L with a minimum grade of C.
3. Fulfillment of application requirements under Nursing: ADN in this section of the catalog. See "Applicants to the ADN program must meet the following requirements."
4. Minimum one year of experience as a LVN in a healthcare setting.

#### **Student Learning Outcomes:**

Upon the successful completion of a VN program and this degree, students should be able to:

1. Achieve 90% or higher on the National Council Licensure Examination (NCLEX) by demonstrating appropriate analytical nursing skills, critical thinking abilities, and communication.
2. Apply components of the delivery of care: coordination, delegation, and prioritization to meet the needs of simulated and actual patients and their families.
3. Communicate effectively with patients, families, peers, and other members of the health team.
4. Practice and demonstrate within the ethical and legal framework of nursing, personal accountability for own actions and professional growth.
5. Utilize the nursing process to provide appropriate care for actual and simulated patients that recognizes threats to physiological, psychological, spiritual, developmental and socio-cultural needs.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the VN to RN Associate in Science Degree option:</b> [S312/07384/1230.10/51.3801]		Units
NURADN 3	Transition in Nursing	1.5
NURADN 3L	Transition in Nursing Laboratory	0.5
NURADN 13	Mental Health and Psychiatric Nursing	2
NURADN 13L	Mental Health and Psychiatric Nursing Laboratory	1
NURADN 34	Nursing Process III	4
NURADN 34L	Nursing Process III Laboratory	3
NURADN 44	Nursing Process IV	4.5
NURADN 44L	Nursing Process IV Laboratory	5
NURADN 50	Professional Issues in Nursing	1
<b>Total units for the major:</b>		<b>22.5</b>

*See also required General Education and additional courses listed for Nursing: ADN.*

#### **VN to RN: Non-Degree Option**

Students completing this program are eligible to apply to take the NCLEX for licensure as a Registered Nurse. The student who elects to take this program is not recognized as a graduate of an accredited ADN program, is not recognized as a Chaffey College ADN graduate, and may not qualify for licensure by endorsement in another state.

*Acceptance into this program is based on the following criteria:*

1. Graduation from a Vocational Nursing Program with an active vocational nursing license.
2. Completion of NURADN 3 and NURADN 3L with a minimum grade of C.
3. Fulfillment of application requirements 1 and 2 under Nursing: ADN in this section of the catalog.
4. Physiology and Microbiology must be completed at the time of application.
5. Minimum one year of experience as a LVN in a healthcare setting.

#### **Student Learning Outcomes:**

Upon the successful completion of this non-degree option, students should be able to:

1. Demonstrate analysis and critical reflection appropriate in the field of nursing.
2. Demonstrate communication and problem solving appropriate in the field on nursing.
3. Plan and prepare for employment and career advancement in the field of nursing.
4. Recognize the need for, and implement ethical decision-making.

<b>Requirements for VN to RN: Non-Degree option:</b>		Units
BIOL 22	Human Physiology	4
BIOL 23	General Microbiology	3
NURADN 3	Transition in Nursing	1.5
NURADN 3L	Transition in Nursing Laboratory	0.5
NURADN 13	Mental Health and Psychiatric Nursing	2
NURADN 13L	Mental Health and Psychiatric Nursing Laboratory	1
NURADN 34	Nursing Process III	4
NURADN 34L	Nursing Process III Laboratory	3
NURADN 44	Nursing Process IV	4.5
NURADN 44L	Nursing Process IV Laboratory	5
NURADN 50	Professional Issues in Nursing	1
<b>Total units:</b>		<b>29.5</b>

#### **Transfer Student: Degree Program**

*Acceptance into this program is based on the following criteria:*

1. Completion of NURADN 3 and NURADN 3L with a minimum grade of C.
2. Fulfillment of application requirements under Nursing: ADN in this section of the catalog.
3. Evaluation of previous course work in nursing will be determined by the ADN Program Director.

## NUTRITION AND FOOD

The Nutrition and Food major is designed for students training in the field of health and wellness based on nutrition and fitness as a lifestyle. The certificate qualifies students for entry-level positions in health spas, retirement and convalescent homes, counseling centers, and youth daycare/camps.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Design a meal plan based on the food guide pyramid including divisions, recommended serving and serving sizes.
2. Explain the processes of food buying, menu planning, nutritional analysis, and other food financial related areas.
3. Identify and describe the effect of nutrition on health and body mass.
4. Operate effectively as part of the health care team.
5. Utilize behavior modification techniques to improve their nutritional wellness.
6. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Science Degree:</b>		Units
[S241/07399/1306.00/19.0501]		
BIOL 14	Health Science	3
BIOL 424	Anatomy and Physiology	3
GERO 404	Health and Wellness for Older Adults	3
NF 5	Nutrition for Life	3
	(or NF 15, Nutrition I: The Science of Nutrition)	
NF 22	Nutrition and the Active Person	3
NF 27	Healthy Cooking	2
KINLEC 17	First Aid and Emergency Response to Community Disasters	3
<b>Total units for the major</b>		<b>20</b>

### Required General Education course:

COMSTD 8	Fundamentals of Speech Communication	3
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## Nutrition and Food Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Design a meal plan based on the food guide pyramid including divisions, recommended serving and serving sizes.
2. Explain the processes of food buying, menu planning, nutritional analysis, and other food financial related areas.
3. Identify and describe the effect of nutrition on health and body mass.
4. Operate effectively as part of the health care team.
5. Utilize behavior modification techniques to improve their nutritional wellness.

### Requirements for the Nutrition and Food Certificate:

[L241/20732/1306.00/19.0501]

Same as the major requirements for the A.S. Degree and general education requirement above

**Total units for the certificate** **23**

## PHARMACY TECHNICIAN

This occupational program prepares students for work as Pharmacy Technicians. The program provides both the technical and practical training that enables the technician, upon licensure, to function as a competent entry-level assistant to the pharmacist. Pharmacy Technicians may be employed in hospitals, community pharmacies, home-health care settings, and government agencies. Program curriculum consists of lecture and laboratory instruction in both simulated and supervised clinical environments.

Upon successful completion of the Pharmacy Technician program, students are qualified to apply to the California State Board of Pharmacy for registration; registration is a legal requirement for work in California as a pharmacy technician. California law also allows for the denial of certification on the basis of any prior criminal convictions substantially related to pharmaceutical practice.

### Enrollment in the Pharmacy Technician program is subject to completion of the following requirements:

1. Admission to Chaffey College.
2. High school graduation, pass the GED test, or pass the High School Proficiency examination, or have associates degree or higher. International transcripts must have AERC, IERF or approved agency evaluation.
3. Eligibility for MATH-410 as determined by the Chaffey assessment process, or successful completion of MATH 520.

### Notes:

- A. The college does not provide transportation to clinical facilities.
- B. Students must demonstrate satisfactory physical and emotional health, as determined by health examination and proof of immunizations.
- C. Students must possess current cardiopulmonary resuscitation (CPR) certificate prior to clinical internship (PHARMT 482). Certificate may be the American Heart Association "Healthcare Provider with AED" or the American Red Cross "Professional Rescuer with AED". The CPR card must be updated annually. Details about times and locations of CPR classes provided at information meetings.
- D. To continue in the Pharmacy Technician program, students must earn satisfactory grades (minimum of "C" in graded courses; "CR" in pass/fail courses) in all Pharmacy Technician and other required courses.
- E. Students with prior pharmacy technician education should contact the college Counseling Department to schedule a course evaluation.
- F. Students are strongly advised to be able to accurately keyboard at a rate of 35 wpm or higher.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate knowledge of human anatomy, physiology, and pharmacology.
2. Demonstrate knowledge of federal/state laws, regulations, ethical and professional conduct in a variety pharmacy practice settings.
3. Demonstrate the correct processing and dispensing of prescriptions/medication orders including compounding sterile and non-sterile products.
4. Perform pharmaceutical calculations essential to the duties of pharmacy technicians in a variety pharmacy practice settings.
5. Demonstrate skills that promote personal, interpersonal, foundational, and professional knowledge in capacities of analysis, critical reflection, career development, and global and community awareness.
6. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Science Degree:</b> [S322/15524/1221.00/51.0805]	Units
PHARMT 401 Pharmacology of the Body Systems I	3
PHARMT 402 Pharmacology of the Body Systems II	3
PHARMT 403 Principles of Community Pharmacy Practice	1.5
PHARMT 404 Principles of Institutional Pharmacy Practice	1.5
PHARMT 405 Sterile Products	2
PHARMT 410 Over-the-Counter Products	2
PHARMT 415 Pharmaceutical Calculations	2
PHARMT 421 Community Pharmacy Operations	3
PHARMT 421L Community Pharmacy Operations Laboratory	1
PHARMT 431 Institutional Pharmacy Operations	3
PHARMT 431L Institutional Pharmacy Operations Laboratory	1
PHARMT 482 Clinical Externship	4
<b>Total units for the major</b>	<b>27</b>

## Pharmacy Technician Certificate

### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate the knowledge of human anatomy, physiology, and pharmacology.
2. Demonstrate knowledge of federal/state laws, regulations, ethical and professional conduct in a variety pharmacy practice settings.
3. Demonstrate the correct processing and dispensing of prescriptions/medication orders including compounding sterile and non-sterile products.
4. Perform pharmaceutical calculations essential to the duties of pharmacy technicians in a variety pharmacy practice settings.
5. Demonstrate skills that promote personal, interpersonal, foundational, and professional knowledge in capacities of analysis, critical reflection, career development, and global and community awareness.

### Requirements for the Pharmacy Technician Certificate:

[T322/20719/1221.00/51.0805]

Same as the major requirements for the A.S. Degree

**Total units for the certificate** **27**



## PHILOSOPHY ASSOCIATE IN ARTS FOR TRANSFER

Philosophy is thinking critically and rationally about human problems of knowledge, existence, conduct, art, and religion. Students explore the great ideas of Western and Eastern heritage and encounter fundamentals of almost all other disciplines. The philosophy curriculum contributes toward a broad, general education in the liberal arts, the goal of which means a liberating of one's mind and to free oneself from conventional opinions of one's time and place.

The Associate in Arts for Philosophy for Transfer (AA-T) degree is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Philosophy guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of philosophy.

The goals and outcomes for the Philosophy major include the following:

1. Prepare students for seamless transfer to a CSU to complete a Philosophy baccalaureate degree.
2. Prepare students for advanced studies within the field of Philosophy.

To obtain the Philosophy AA-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.

- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Understand and evaluate a variety of philosophical texts.
2. Identify the major themes in historical philosophy and place theories and perspectives within their historical context.
3. Articulate and critique major philosophical theories and perspectives.
4. Utilize the tools of logic in critiquing and developing philosophical positions.

**Major requirements for the Associate in Arts for Transfer Degree** Units  
[A336/32183/1509.00/38.0101]

### Required – Select two (6 units):

PHIL 70	Introduction to Philosophy (or PHIL 72, Seminar in Ethics)	3
PHIL 75	Symbolic Logic	3

### List A – Select one (3 units):

The course not used above, or:

PHIL 76	Critical Thinking	3
PHIL 77	History of Ancient Philosophy	3
PHIL 78	History of Philosophy: Modern	3

### List B – Select two (6 units):

Any List A course not already used, and/or:

HIST 5	Early Western Civilizations	3
HIST 6	Modern Western Civilizations	3
PHIL 80	Introduction to Religion	3

### List C – Select one (3 units):

Any List A or List B course not already used, or:

PHIL 73	Seminar in Contemporary American Philosophy	3
PHIL 81	Introduction to Eastern Philosophy	3
PHIL 82	Introduction to Monotheistic Religions: Judaism/Christianity/Islam	3

<b>Units for the Major</b>	<b>18</b>
<b>Units that may be double-counted</b>	<b>6-12</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>39-41</b>
<b>plus transfer-level course electives (as needed)</b>	<b>7-15</b>
<b>Total Units Required for Degree</b>	<b>60</b>

## PHILOSOPHY: RELIGIOUS STUDIES

Religious Studies encompass the personal, cultural, and ultimate dimensions in life. Students are introduced to theistic and non-theistic religions and philosophies, East and West, and their distinctive world views' through cognitive and social emphases. Religion courses aim to enable students to discover basic structures or essential characteristics of human religious experience through critical observation and thought.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Understand and evaluate a variety of religious texts.
2. Identify the major themes in religions and place theories and perspectives within their historical context.
3. Articulate and critique major religious theories and perspectives.
4. Utilize the tools of logic in critiquing and developing religious perspectives.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Arts Degree:</b> [A385/07390/1510.00/38.0201]		Units
PHIL 72	Seminar in Ethics	3
PHIL 80	Introduction to Religion	3
PHIL 81	Introduction to Eastern Philosophy	3
PHIL 82	Introduction to Monotheistic Religions: Judaism/Christianity/Islam	3

**Plus two courses from the following:**

HUMAN 20	The Holocaust: History and Philosophy	3
PHIL 70	Introduction to Philosophy	3
PHIL 76	Critical Thinking	3
PHIL 77	History of Ancient Philosophy	3
PHIL 78	History of Philosophy: Modern	3

**Plus six units from the following or from approved special topics:**

Anthropology 3
Biology 1, 2, 10
English 68, 70A, 70B, 71, 75A, 75B, 76, 79, 81
Political Science 2
Psychology 1, 5
Sociology 10, 16

**Total units for the major** **24**

## PHOTOGRAPHY

The Photography programs emphasize using photography as a creative medium for communicating through visual images. Students may take photography courses as electives, as part of an occupational certificate, or for an A.A. degree in photography.

**Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Demonstrate critical thinking skills required for transfer for completion of a bachelor's degree.
2. Demonstrate skills of analysis and critical reflection required for transfer for completion of a bachelor's degree in photography.
3. Demonstrate innovative problem solving required for transfer for completion of a bachelor's degree in the field of photography.
4. Demonstrate professional communication appropriate to the field of photography.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

<b>Major requirements for the Associate in Arts Degree:</b> [A340/04783/1012.00/10.0201]		Units
ARTH 1	Contemporary Art: 1945-Present (or ARTH 5, Survey of Western Art from Renaissance to Contemporary)	3
ART 10	Fundamentals of Design in Two Dimensions (or ART 63, Introduction to Graphic Design, or ART 14, Introduction to Drawing, 3)	4
PHOTO 1	History of Photography	3
PHOTO 7	Introduction to Digital Photography (or PHOTO 10, Beginning Photography)	4
PHOTO 9	Digital Imaging (or PHOTO 11, Intermediate Photography)	4
PHOTO 12	Studio Lighting	4
PHOTO 13	Fine Art Photography	4
PHOTO 20	Photography for Media	4
PHOTO 50	Introduction to Color Photography	4
<b>Total units for the major</b>		<b>33-34</b>

## Still Photography Certificate

**Student Learning Outcomes:**

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate analysis, critical reflection and problem solving skills.
2. Foster capacities of career development in a globally diverse job market.
3. Demonstrate knowledge of appropriate photographic equipment and software appropriate for competitive employment in the field of still photography.
4. Articulate and express themselves and their idea/concepts through the use of the appropriate photograph technologies required for competitive employment in the field of still photography.
5. Select and use correct photographic technologies to express their ideas/concepts required for competitive employment in the field of still photography.

**Requirements for the Still Photography Certificate:**

[T340/20716/1012.00/10.0201]

BUSMGT 45	Small Business Ownership and Management	3
PHOTO 1	History of Photography	3
PHOTO 7	Introduction to Digital Photography (or PHOTO 10, Beginning Photography)	4
PHOTO 9	Digital Imaging (or PHOTO 11, Intermediate Photography)	4
PHOTO 12	Studio Lighting	4
PHOTO 13	Fine Art Photography	4
PHOTO 20	Photography for Media	4
PHOTO 21	Public Relations Photography	2
PHOTO 50	Introduction to Color Photography	4
PHOTO 422	Wedding Photography	2

**Plus one course from the following:**

ART 10	Fundamentals of Design in Two Dimensions	4
ART 63	Introduction to Graphic Design	4

**Plus one course from the following:**

PHOTO 408	Video for Photographers	4
PHOTO 430	Fine Art Photography Portfolio	4
PHOTO 432	Wedding Photography Portfolio	2
PHOTO 434	Public Relations Photography Portfolio	2
PHOTO 436	Studio Lighting Portfolio	4
PHOTO 438	Photography for Media Portfolio	4

**Total units for the certificate** **40-42**

## PHYSICAL EDUCATION / COACHING / ATHLETIC TRAINING

(See Kinesiology)



## PHYSICAL SCIENCE

Physical Science is the study of the natural sciences encompassing non-living systems although aspects of living systems are also studied. Scientific issues are presented and discussed in the physical science courses enabling a deeper understanding of societal issues that require thoughtful decisions and interaction. Physical Science courses enrich the general education program and fundamentally support further education to prepare for scientific, technological, and engineering careers. The selection of courses will assist in the selection of an upper-division science major. For non-transfer students, this area of emphasis will assist in the preparation for employment at the level of technician.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Apply basic physics concepts of symbolism, language and physical laws to describe the fundamental properties of nature.
2. Apply chemical and physical concepts, symbolism, language, atomic structure and use of periodic table to describe the changes that matter undergoes and the applications of chemistry.
3. Apply experimental techniques to the laboratory environment as demonstrated by safe handling and disposal of chemicals, proper use of lab materials, evaluating and validating scientific data, and using proper laboratory etiquette.
4. Provide technical information in a clear and concise manner to demonstrate effective written and oral communication skills for chemical and physical concepts, results of laboratory experiments, and articles in the general public scientific literature.

### Requirements for the Associates in Science Degree:

[S351/18435/1901.00/40.0101] = Transfer  
[S352/18777/1901.00/40.0101] = Non-transfer

Units

#### A. General Education

23-39

Choose either Chaffey College's General Education, California State University General Education (CSU-GE), or Intersegmental General Education Transfer Curriculum (IGETC) for the general education pattern related to your goal. Students who intend to transfer should complete the CSU-GE or IGETC pattern. Consult with a counselor to determine which general education pattern is the best choice for the college/university you plan to attend.

#### B. Area of Emphasis

18

Eighteen units selected from at least three of the listed subject areas. No more than eight units from any single subject area may be counted toward the major. A minimum of two courses with an associated laboratory in addition to the laboratory required for the general education requirements in the Natural Science category. A minimum of Trigonometry (MATH 31) is required.

Astronomy 26, 35  
Chemistry 24A, 24B, 70, 75A, 75B  
Computer Science 1  
Earth Science 1, 1L, 5, 5L  
Engineering 11, 26, 30, 50, 60, 71  
Geography 4, 5  
Geology 1, 2  
Mathematics 3, 31, 61, 65A, 65B, 75, 81, 85  
Physics 20A or 30A, 20B or 30B, 44, 45, 46, 47  
Statistics 10

#### C. Electives

3-19

Elective units may be necessary to reach the total of 60 overall units required for the Associate Degree. If you are planning to transfer, elective units must be transferable to CSU and/or UC.

**Total units for the degree**

**60**

**Note:** Courses included in the area of emphasis cannot be used to fulfill General Education requirements.



## PHYSICS ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science for Transfer (AS-T) degree in Physics prepares students for transfer to four-year colleges and universities to obtain a baccalaureate degree in Physics. The Physics AS-T curriculum provides students a basis for understanding the physical concepts and skills required to attain upper division status at a four-year college or university, and also provides many of the prerequisite courses for engineering majors.

The program is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four-year institution to complete their bachelor's degree. Successful completion of the transfer degree in Physics guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in physics.

The goals and outcomes for the physics major include the following:

1. Prepare students for seamless transfer to a CSU to complete a baccalaureate degree in physics.
2. Prepare students for advanced studies within the field of physics.

To obtain the Physics AS-T degree, students must:

- Complete all major requirements listed below with grades of C or better in each course. "P" (pass) grades are not acceptable for courses in the major.
- Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- Complete 60 semester CSU-transferable units using the California State University-General Education Breadth (CSU-GE) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 semester units are required.

### Program Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Apply concepts in physics, physics symbolism and language, and mathematical skills to solve problems in physics.
2. Demonstrate skill in scientific communication (both written and oral) and apply these skills to physical concepts, describing results of laboratory experiments, and providing technical information in a clear and concise manner.
3. Use experimental techniques in the laboratory environment to obtain accurate and precise data, to evaluate and validate scientific data, to correctly use scientific instruments, and use proper laboratory etiquette.

### Major requirements for the Associate in Science for Transfer Degree

[S356/32347/1902.00/40.0801]		Units
MATH 65A	Calculus I	4
MATH 65B	Calculus II	4
MATH 75	Calculus III	5
PHYS 45	Physics for Scientists and Engineers I	5
PHYS 46	Physics for Scientists and Engineers II	5
PHYS 47	Physics for Scientists and Engineers III	5

### Units for the Major

28

### Units that may be double-counted

9

### plus CSU General Education-Breadth or IGETC Pattern

37-39

### plus transfer-level course electives (as needed)

2-4

### Total Units Required for Degree

60



## POLITICAL SCIENCE ASSOCIATE IN ARTS FOR TRANSFER

Political Science, the study of politics and government, examines ways and means by which societies identify and solve problems. The exercise of power in decision-making processes and its effect on societal resources is explored and weighed. Political values and beliefs are determined and evaluated for further depth of understanding. Political science courses enrich the general education program.

The Political Science Associate in Arts for Transfer (AA-T) is suited to the needs of students who will complete their education at Chaffey College with an Associate in Arts degree, as well as those students who will complete their Chaffey Associate in Arts degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Political Science guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of law, government service, city management, public administration, foreign service, journalism, business and teaching.

To obtain the Political Science Associate in Arts for Transfer degree, students must:

- Complete all the major requirements listed below with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE), or the Intersegmental General Education Transfer Curriculum (IGETC).

### **Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Distinguish between individual and citizen, and identify the impacts a citizen has on public policy.
2. Critically analyze a pro/con argument.
3. Identify the competing motivations behind the political behaviors of individuals and groups, and the constraints to those behaviors.
4. Identify the fundamental principles of a republican government, and compare and contrast with other forms of government (e.g. dictatorships, monarchies, theocracies).
5. Identify social, political, and economic forces necessary to achieve a constitutional order.

**Major requirements for the Associate in Arts for Transfer Degree** Units  
[A361/30979/2207.00/45.1001]

**Required (3 units)**  
PS 1 American Politics 3

**List A - Any three courses (9-10 units)**

PS 2	Introduction to Political Science	3
PS 4	Political Theory	3
PS 7	International Relations	3
PS 10	Comparative Politics	3
PSYCH 80	Research Methods in Psychology (or STAT 10, Elementary Statistics, or SOC 80, Introduction to Research Methods in Sociology)	4

**List B – Any two courses (6 units)**  
Any List A course not used above, and/or:

PS 3	California Politics and Culture	3
PS 21	Urban Politics	3
PS 25	Latino Politics	3
PS 32	Law and Society	3

<b>Units for the Major</b>	<b>18-19</b>
<i>plus CSU General Education or IGETC Pattern</i>	<b>38-41</b>
<i>plus transfer-level course electives (as needed)</i>	<b>0-4</b>
<b>Total Units</b>	<b>60</b>



## PSYCHOLOGY ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Psychology for Transfer (AA-T) is for students who wish to major or minor in psychology or related fields. Courses are designed to provide students with greater understanding of the behavior of living organisms as individuals and groups. Goals for the Psychology major include student preparation for:

1. Transfer to complete a baccalaureate degree.
2. Advanced studies within the field of Psychology.
3. Careers both within and outside the field of Psychology.
4. Thinking scientifically about the mind and behavior, including their own.

The program is suited to the needs of students who will complete their education at Chaffey College with an Associate in Arts degree, as well as those students who will complete their Chaffey Associate in Arts degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Psychology guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the fields of psychology, social service, education, social science research, biopsychology, clinical psychology, educational psychology, industrial psychology, organizational psychology, social psychology, school psychology, experimental psychology and counseling psychology.

To obtain the Psychology Associate in Arts for Transfer degree, students must:

- Complete all the major requirements listed below with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE), or the Intersegmental General Education Transfer Curriculum (IGETC).

### **Student Learning Outcomes:**

Upon the successful completion of this degree, students should be able to:

1. Demonstrate familiarity with major concepts, theoretical perspectives, empirical findings, and historical trends.
2. Understand and apply basic research methods, including research design, data analysis, and interpretation.
3. Show insight into one's own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement.
4. Recognize, understand, and respect the complexity of sociocultural and international diversity.
5. Respect and use critical and creative thinking, skeptical inquiry and the scientific approach.

**Major requirements for the Associate in Arts for Transfer Degree** Units  
[A366/31115/2001.00/42.0101]

**Required (14 units)**

PSYCH 1	Introduction to Psychology	3
PSYCH 41	Biological Psychology	3
PSYCH 80	Research Methods in Psychology	4
SCSCI 10	Statistics for Social Science	4

**List A – Any one course (3 units)**

PSYCH 20	Developmental Psychology: Childhood and Adolescence	3
PSYCH 25	Developmental Psychology: Lifespan Development	3
PSYCH 65	Social Psychology	3

**List B – Any one course (3 Units)**  
Any List A course not used above or:

PSYCH 5	Personal and Social Awareness	3
PSYCH 55	Abnormal Psychology	3

<b>Units for the Major</b>	<b>20</b>
<i>plus CSU General Education or IGETC Pattern</i>	<b>38-40</b>
<i>plus transfer-level course electives (as needed)</i>	<b>0-2</b>
<b>Total Units</b>	<b>60</b>

## RADIOLOGIC TECHNOLOGY

The Radiologic Technology program leads to an Associate in Science degree and certification. Training includes operation of digital and conventional x-ray equipment, exposing and processing images, utilizing radiation protection practices, positioning patients, and patient care. Concurrent clinical training is conducted in hospitals affiliated with Chaffey College. The Radiologic Technology program is accredited by the State of California and the Joint Review Committee on Education in Radiologic Technology, (JRCERT; [www.jrcert.org](http://www.jrcert.org)). Upon successful completion, graduates earn Diagnostic Radiologic Technology and Radiologic Technologist Fluoroscopy Permit certificates and are eligible to become licensed as Radiologic Technologists. There are fees for obtaining licensure by examination and certification. The national certification examination and the State of California Certified Radiologic Technologist and Fluoroscopy Permit examinations are administered by the American Registry of Radiologic Technologists (ARRT; [www.arrt.org](http://www.arrt.org)). There are application fees for certification with the State of California (CRT). The program articulates with the California State University Northridge and the Loma Linda University Radiologic Technology programs for the bachelor's degree.

The special application form for admission to the RT program is available online at [www.chaffey.edu/radtec](http://www.chaffey.edu/radtec) and must be submitted during the month of February for classes beginning the following August. Information about the requirements that must be completed prior to applying to the Radiologic Technology program is available at the department's website at [www.chaffey.edu/radtec](http://www.chaffey.edu/radtec). Go to this website and click on the application form checklist and Information Packet for the Prospective Radiologic Technology Student. Application criteria is subject to change.

### Applicants to the Radiologic Technology program must meet the following criteria:

1. Eligibility for admission to Chaffey College.
2. International students' transcripts must have AERC, IERF or approved agency evaluation.
3. Minimum age of 18 years (per California Code of Regulations, Title 17 Public Health, and Code of Federal Regulations, Title 10).
4. Completion of the following courses with a minimum GPA of 2.0, or courses in progress at the time of application:
  - a. MATH 425 or higher level math, or STAT 10, or SCSCI 10, or as required for graduation.\*
  - b. CHEM 9; 10; or 24A; or PHYS 5 or higher; or high school chemistry or physics. (If high school courses are used to meet these requirements, high school transcripts must be submitted for evaluation.)
  - c. BIOL 20 (or BIOL 424 *and* 424L) completed within five (5) years of application submission date.
  - d. BIOL 30

### Notes:

1. Students are admitted to the Radiologic Technology program on a point system.
2. Required courses listed under number four above and general education courses are assigned points. Only courses completed prior to the application period will be included for full point calculation.
3. A minimum cumulative GPA of 2.8 is required to apply to the Radiologic Technology program. In addition, all general education and required prerequisite courses must be completed with a minimum grade of C or higher, or be in progress at the time of application.
4. Applicants will be notified by the end of May if they are accepted into the program.
5. Prior to admission to the RT program, evidence of satisfactory physical and emotional health is required as determined by a health examination. A background clearance and drug screening are also required. Applicants with a record of any felony are subject to review by the ARRT before an examination or license will be granted. Contact the ARRT at [www.arrt.org](http://www.arrt.org), and submit a pre-application to determine eligibility for ARRT licensing. Applicants must obtain and submit a satisfactory background check certificate from [www.mybackgroundcheck.com](http://www.mybackgroundcheck.com) using a shared password. Refer to the RT website at [www.chaffey.edu/radtec](http://www.chaffey.edu/radtec) for details.
6. In order to continue in the RT program, students must earn a minimum grade of C (78%) in all Radiologic Technology courses.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Operate digital and conventional x-ray equipment, exposing and processing images.
2. Be clinically competent in radiation protection practices, positioning patients and patient care.
3. Demonstrate ethics, professionalism, critical thinking, and communicate effectively as a Radiologic Technologist.
4. Be eligible for licensure as a Radiologic Technologist.
5. Demonstrate academic skills that prepare them to participate in all domains of society: civically, economically, and politically.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

Major requirements for the Associate in Science Degree:		Units
[S375/04792/1225.00/51.0911]		
RADTEC 10	Anatomy and Radiographic Positioning I	3
RADTEC 10L	Laboratory for Anatomy and Radiographic Positioning I	1
RADTEC 16	Medical Procedures for Radiologic Technologists	3
RADTEC 16L	Laboratory for Medical Procedures for Radiologic Technologists	1
RADTEC 20	Radiologic Science and Protection	3
RADTEC 20L	Laboratory for Radiologic Science and Protection	1
RADTEC 25	Anatomy and Radiographic Positioning II	3
RADTEC 25L	Laboratory for Anatomy and Radiographic Positioning II	1
RADTEC 31	Radiographic Clinical Education I	2
RADTEC 34	Radiographic Imaging	3
RADTEC 34L	Laboratory for Radiographic Imaging	1
RADTEC 40	Radiographic Clinical Education II	8
RADTEC 50*	Radiographic Clinical Education III	6
RADTEC 55*	Radiographic Equipment and Clinical Application	2
RADTEC 61	Radiographic Clinical Education IV	8
RADTEC 66	Anatomy and Radiographic Positioning III	3
RADTEC 66L	Laboratory for Anatomy and Radiographic Positioning III	1
RADTEC 70	Radiographic Clinical Education V	11
RADTEC 77	Radiographic Pathology	3
RADTEC 81*	Radiographic Clinical Education VI	5
RADTEC 85*	Radiographic Review and Exam Preparation	2
RADTEC 470	Venipuncture for Imaging Professionals	1
RADTEC 470L	Venipuncture Laboratory for Imaging Professionals	0.5
<b>Total units for the major</b>		<b>72.5</b>

All applicants to the Radiologic Technology program are required to have successfully completed or be enrolled in Intermediate Algebra (MATH-425). Successful completion of English Composition (ENGL-1A) and MATH-425 are required to earn an Associate Degree in Radiologic Technology. All general education coursework for the associate degree must be in progress or have been completed at the time of the RT application submission.

\*RADTEC-50 and 55 are offered during the 1st summer of the program; RADTEC-81 and 85 are offered during the 2nd summer.

## REAL ESTATE

The real estate professional in California is concerned with the transfer of title to real property and those activities supporting this vital function. Ranging in scope from the sale of single family residence to the management of a multi-unit residential complex, the real estate industry requires extensive education and practical experience of its licensees. The California Real Estate Commission has established stringent regulations, and the National Association of Realtors has an equally stringent Code of Ethics to insure a high level of individual professionalism.

### Student Learning Outcomes:

Upon the successful completion of these programs, students should be able to:

1. Conduct business research, analyze, and interpret the findings.
2. Apply the conceptual framework of real estate transactions in business situations.
3. Demonstrate an understanding of the legal and ethical environment of real estate and make appropriate decisions.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

Major requirements for the Associate in Science Degree:		Units
[S381/14400/0511.00/52.1501]		
RE 10	Real Estate Principles	3
RE 15	Real Estate Practice	3
RE 50	Legal Aspects of Real Estate I	3
RE 60	Real Estate Finance	3
RE 70	Real Estate Appraisal	3
RE 86	Real Estate Property Management	3

### Plus a minimum of 9 units from the following:

ACCTG 1A	Financial Accounting (or ACCTGFS 465, Financial Accounting for the Non-Accounting Major, 3)	4
ACCTGFS 453	U.S. and California Income Tax Preparation	4
ACCTGFS 454	Introduction to the Taxation of Corporations and Partnerships	4
BUS 28A	Business Law I	3
BUS 28B	Business Law II	3
BUS 49	Business Decisions Using Basic Quantitative Tools	3
BUSMG 40	Introduction to Management	3
BUSMKT 13	Professional Selling	3
BUSOT 455	Fundamentals of English for Business	3
CIS 1	Introduction to Computer Information Systems	3
CIS 68	Using the Internet	1.5
COMSTD 8	Fundamentals of Speech Communication	3
ECON 1	Introduction to Economics	3
RE 472	Advanced Real Estate Appraisal	3
RE 475	Real Estate Escrow I	3

**Total units for the major** 27

### Requirements for the Real Estate Certificate:

[L382/20684/0511.00/52.1501]

Same as the major requirements for the A.S. Degree.

**Total units for the certificate** 27

### Real Estate Salesperson's Certificate

This program is intended for individuals desiring to become real estate salespersons with a minimum of course requirements.

### Requirements for the Real Estate Salesperson Certificate:

(Non-transcripted)

[E383/99999/0511.00/52.1501]

RE 10	Real Estate Principles	3
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### Plus two courses from the following:

RE 15	Real Estate Practice	3
RE 50	Legal Aspects of Real Estate I	3
RE 60	Real Estate Finance	3
RE 70	Real Estate Appraisal	3
RE 86	Real Estate Property Management	3
RE 475	Real Estate Escrow I	3

**Total units for the certificate** 9

Note: As of July 1, 2003, all applicants for a real estate salesperson license for the state of California are required to complete a course in Real Estate Practices in addition to the other required courses. Real Estate Practices must be taken either prior to the license examination or for conditional licenses, within eighteen months after issuance of the license.

## SIGN LANGUAGE STUDIES

Sign Language Studies prepares students for careers relating to the Deaf community and/or American Sign Language (ASL). Students will gain skills in communicating through ASL and translating English to ASL/ASL to English. Sign Language Studies may lead students to careers in Deaf Education, Interpreting, Sign Language Instruction, linguistic research, and many other areas. Additionally, students will have greater employment opportunities with their ability to communicate with deaf and hard-of-hearing population, especially in the legal, education, public safety, and health care fields.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Successfully engage in conversation strategies in ASL using basic receptive and expressive skills including knowledge of linguistic structures and vocabulary.
2. Demonstrate familiarity with the history of American Deaf Culture.
3. Demonstrate familiarity with important cultural issues and behaviors related to American Deaf culture through personal interactions.

*To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.*

### Major requirements for the Associate in Arts Degree:

[A403/30544/0850.00/16.1601]		Units
ASL 2 *	Elementary American Sign Language	4
ASL 3	Intermediate American Sign Language	4
ASL 4	Intermediate American Sign Language	4
ASL 18	Introduction to Deaf Studies	3

### Plus a minimum of six units from the following:

ANTHRO 1	Introduction to Biological Anthropology	3
COMSTD 14	Oral Interpretation of Literature	3
COMSTD 74	Intercultural Communication	3
ED 10	Elementary Classroom Fieldwork	3
PHIL 72	Seminar in Ethics (or PHIL 76, Critical Thinking)	3
PSYCH 65	Social Psychology	3
SOC 10	Introduction to Sociology	3

**Total units for the major** 21

\* Students with advanced placement into ASL 3 may substitute a course from the elective list for ASL 2.





## SOCIOLOGY ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Sociology for Transfer (AA-T) is a study of society, the social construction of reality and social interaction. Emphasis is placed on how social structure creates inequality based on group membership such as ethnicity, class and gender. The development and transformation of societies are explored, focusing on social forces such as social conflict, collective behavior, social movements, and organizational and institutional influences. Goals and outcomes for the Sociology major include student preparation for:

1. Transfer to complete a baccalaureate degree.
2. Advanced studies within the field of sociology.
3. Careers both within and outside the field of sociology.
4. Seamless transfer to a California State University pursuant the requirements of SB-1440.

The program is suited to the needs of students who will complete their education at Chaffey College with an Associate in Arts degree, as well as those students who will complete their Chaffey Associate in Arts degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Sociology guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the fields of sociology, social service, education, social science research, demographer/planner, political research, counseling, journalism and business.

To obtain the Sociology Associate in Arts for Transfer degree, students must:

- Complete all the major requirements listed below with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE), or the Intersegmental General Education Transfer Curriculum (IGETC).

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Recognize the connections between social structure and the individual in society.
2. Identify how ideas about what is "real" and "true" are constructed in a social context and shaped by those who have power and influence.
3. Identify and explain the significance of social class, gender, age, and racial and ethnic inequality in the distribution of life chances, such as education, health, employment and career opportunities.
4. Identify the difference between research and opinion, identify and evaluate different types of evidence and knowledge (ways of knowing) and identify how research reveals socially structured patterns.
5. Understand and demonstrate the impact of social action on the social structures of society.

**Major requirements for the Associate in Arts for Transfer Degree:** Units  
[A401/31204/2208.00/45.1101]

### **Required (3 units)**

SOC 10 Introduction to Sociology 3

### **List A – Any two courses (7-8 units)**

SCSCI 10 Statistics for Social Science 4  
SOC 70 Social Problems 3  
SOC 80 Introduction to Research Methods in Sociology 4

### **List B – Any two courses (6-7 Units)**

Any List A courses not used above, and/or:

PSYCH 65 Social Psychology 3  
SOC 14 Sociology of Gender 3  
SOC 15 Ethnic and Race Relations: U.S. and Global Perspectives 3  
SOC 16 Marriage, Family and Relationships 3

### **List C – Any one course (3 Units)**

Any List A and List B courses not used above, and/or:

ANTHRO 3 Introduction to Social and Cultural Anthropology 3  
SOC 18 Sociology of Aging 3

### **Units for the Major**

**19-21**  
**plus CSU General Education or IGETC Pattern**  
**39-41**  
**plus transfer-level course electives (as needed)**  
**0-2**  
**Total Units**  
**60**



## SPANISH ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Spanish for Transfer degree will prepare students for upper division coursework in the study of Spanish. The Spanish program offers students a strong foundation in communicative skills and provides students with the opportunity to transfer to a variety of liberal arts, language arts, and linguistics bachelor degree programs. In addition, majoring in Spanish provides adults with the language skills necessary for various professions in healthcare, law enforcement, public safety, education, government, translation/interpretation, business, international relations, and hotel and food services. Spanish language study includes a strong cultural emphasis which also affords new perspectives on the world and on the language of one's heritage.

The Associate in Arts in Spanish for Transfer degree is suited to the needs of students who will complete their education at Chaffey College with an A.A. degree, as well as those students who will complete their Chaffey A.A. degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Spanish guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of Spanish.

The goals and outcomes for the Spanish major include the following:

1. Prepare students for seamless transfer to a CSU to complete a Spanish Baccalaureate degree.
2. Provide students with a core body of knowledge in the study of Spanish, with advanced topics that provide breadth of knowledge, build on the cultural and linguistic study of Spanish as a Modern Language.
3. Prepare students for advanced studies within the field of Spanish.

To obtain the Spanish A.A.-T degree, students must complete the following:

1. A minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
2. 60 semester CSU-transferable units using the California State University-General Education-Breadth pattern (CSU-GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
3. No more than 60 semester units are required.

### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

1. Demonstrate effective skills in four major areas of language study: reading, writing, speaking and listening comprehension.
2. Identify specific music, art, literature, and/or cultural traditions of Spain and Latin America.
3. Identify important cultural and/or historical figures of the Hispanic world.
4. Successfully engage in conversations in the target language appropriate for each level.
5. Demonstrate familiarity with the countries and regions where Spanish is spoken.

<b>Major requirements for the Associate in Arts for Transfer Degree</b>		Units
[A406/33227/110500/16.0905]		
<b>Core (16 units):</b>		
SPAN 1	Elementary Spanish I	4
SPAN 2	Elementary Spanish II	4
SPAN 3	Intermediate Spanish I (or SPAN 3SS, Spanish for Heritage Speakers I)	4
SPAN 4	Intermediate Spanish II (or SPAN 4SS, Spanish for Heritage Speakers II)	4

\* If a student places out of any core course(s) and is not awarded units for that course, the student will need to take additional units from List A to compensate

#### List A: Select one (3 units)

ENGL 77	Latino Literature	3
HIST 70	Chicanos: The Common History of Mexico and the US	3
HIST 71	Chicanos: The Chicano Minority in the United States	3
SOC 25	Introduction to Chicano/Latino Studies in the United States	3
SOC 26	Introduction to Latin American Societies	3
SPAN 8	Survey of Hispanic Literature: 1700-Present	3
SPAN 13	Survey of Mexican Literature	3
SPAN 14	Latin American Literature	3

<b>Units for the Major</b>	<b>19</b>
<b>Units that may be double-counted</b>	<b>6-15</b>
<b>plus CSU General Education-Breadth or IGETC Pattern</b>	<b>37-39</b>
<b>plus transfer-level course electives (as needed)</b>	<b>6-19</b>
<b>Total Units Required for Degree</b>	<b>60</b>



## THEATRE ARTS ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Theatre Arts for Transfer (AA-T) prepares students to transfer into the CSU system to complete a baccalaureate degree in Theatre Arts or a similar major. Various productions are offered to provide students with a broad range of practical training

The program is suited to the needs of students who will complete their education at Chaffey College with an Associate in Arts degree, as well as those students who will complete their Chaffey Associate in Arts degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Theatre Arts guarantees student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree.

Goals and outcomes for the Theatre Arts major include:

- Continued improvement and maintenance of a learner-centered environment for Theatre education that includes a dynamic and accessible performance program respectful of each student through varied delivery strategies.
- Introduction of general education, transfer and vocational students to the history of theatre, classical stage acting techniques, musical theatre techniques, acting for the camera techniques, stylized acting, stage movement, directing for the stage and main stage production, as well as instruction that integrates the appreciation of theatre as an academic endeavor, comprehensive art and social form.
- Provision of safe, current and effective facilities and equipment that are up to professional industry standards for varied technical theatre fields so that our students can create and enhance innovative projects/products.
- Preparation of students for seamless transfer to a California State University to pursue a Theatre Arts baccalaureate degree pursuant the requirements of SB-1440.

To obtain the Theatre Arts Associate in Arts for Transfer degree, students must:

- Complete all the major requirements listed below with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE), or the Intersegmental General Education Transfer Curriculum (IGETC).

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

- Differentiate between theatre as a theatrical art and social form throughout history through technical skills development in the classroom and critical thinking development through theatre historical and theoretical analysis.
- Develop and exhibit acting technical skills and styles within a wide spectrum of acting methods while applying knowledge of the mechanical principles of stage performance for an expressive, communicative purpose.
- Exhibit improved creativity, self-confidence, script analysis, character development, observation, body awareness, vocal awareness and memorization skills, as well as collaborative problem-solving and diversity awareness through technical skills, acquired style, and performance skills.

**Major requirements for the Associate in Arts for Transfer Degree:** Units  
[A410/31337/1007.00/50.0501]

#### Required (9 units)

THEATRE 1	Introduction to Theatre (or THEATRE 4, Theatre History: Ancient to 1700)	3
THEATRE 10	Beginning Acting	3
THEATRE 50	Main Stage Production Workshop I	3

#### List A – Any three courses (9 units)

THEATRE 12	Intermediate Acting	3
THEATRE 30	Technical Theatre	3
THEATRE 32	Theatre Design – Lighting	3
THEATRE 40	Stage Costuming	3
THEATRE 42	Theatrical Makeup	3

<b>Units for the Major</b>	<b>18</b>
<b>plus CSU General Education or IGETC-CSU Pattern</b>	<b>42</b>
<b>plus transfer-level course electives (as needed)</b>	<b>0-9</b>
<b>less units that may be double-counted</b>	<b>9</b>
<b>Total Units</b>	<b>60</b>

## THEATRE - PERFORMING ARTS

The Performing Arts Associate in Arts degree prepares students to transfer to four-year institutions other than CSU's to complete a baccalaureate degree in performing or theatre arts. If transfer to a CSU in performing or theatre arts is a student's desired educational goal, the Associate in Arts for Transfer (AA-T) in Theatre Arts should be pursued rather than this degree. The focus of the Performing Arts degree is on performance, whereas the AA-T degree provides a broader coverage of the basic theory and principles of theatre arts.

The Performing Arts degree provides students with both the theory and practical experience necessary for either employment in beginning levels of professional theatre or transfer to a performing or theatre arts major at a four-year institution other than a CSU. Various productions are offered to provide students with a broad range of practical training.

#### Student Learning Outcomes:

Upon the successful completion of this degree, students should be able to:

- Develop a fundamental knowledge of the origins of theatre.
- Recognize the aesthetics of design.
- Critically analyze and appraise a theatrical performance and technical aspects of the production.

To obtain an Associate's Degree, students must complete both the major requirements below and the graduation requirements listed on pages 33-34.

<b>Major requirements for the Associate in Arts Degree:</b>		Units
[A415A/04780/1007.00/50.0501]		
THEATRE 1	Introduction to Theatre	3
THEATRE 2	Theatrical Dance (also available as DANCE 2)	3
THEATRE 4	Theatre History: Ancient to 1700	3
THEATRE 5	Theatre History: 1700-Present	3
THEATRE 10	Beginning Acting	3
THEATRE 20	Directing for the Stage I	3
THEATRE 30	Technical Theatre	3
THEATRE 50	Main Stage Production Workshop I (or THEATRE 51, Main Stage Production Workshop II)	3
<b>Plus one course from the following:</b>		
THEATRE 32	Theatre Design - Lighting	3
THEATRE 36	Stage Management	3
THEATRE 40	Stage Costuming	3
THEATRE 42	Theatrical Makeup	3
<b>Plus two courses from the following:</b>		
THEATRE 12	Intermediate Acting	3
THEATRE 14	Stylized Acting	3
THEATRE 18	Seminar in Television Production: Acting Techniques	3
THEATRE 21	Directing for the Stage II	3
THEATRE 35	Musical Theatre Performance	3
THEATRE 57	Children's Theatre	3
THEATRE 60	Seminar: Acting	3
<b>Total units for the major</b>		<b>33</b>

### Technical Theatre

The Technical Theatre Certificate of Career Preparation is designed to prepare students for occupational competency as a theatre technician; theatre manager in educational, community, and resident theatre venues; theme parks, television, and motion picture studios. Technical theatre technicians may work on set construction, theatrical carpentry, sound systems, lighting design, light board operation, stage lighting, scenery costumes, props, and special effects.

#### Student Learning Outcomes:

Upon the successful completion of this certificate, students should be able to:

1. Demonstrate skills that foster career development in the area of technical theatre.
2. Possess a fundamental knowledge of the origins of theatre.
3. Recognize the aesthetics of design.
4. Critically analyze and appraise a theatrical performance and technical aspects of the production.

<b>Requirements for the Technical Theatre Certificate (non-transcripted)</b>		Units
[E415/99999/1006.00/50.0502]		
THEATRE 30	Technical Theatre	3
THEATRE 32	Theatre Design – Lighting	3
THEATRE 36	Stage Management	3
THEATRE 40	Stage Costuming (or THEATRE 42, Theatrical Makeup)	3
THEATRE 50	Main Stage Production Workshop I (or THEATRE 51, Main Stage Production Workshop II)	3
THEATRE 55	Technical Theatre in Production	2
<b>Total units for the certificate</b>		<b>17</b>

## UNIVERSITY STUDIES

The Associate in University Studies is designed for students who wish a broad knowledge of liberal arts and sciences plus additional coursework in an 'Area of Emphasis'. This area of emphasis would be an ideal choice for students planning on transferring to the California State University (**CSU**) or University of California (UC) as the student can satisfy their general education requirements, plus focus on transferable course work that relates to majors at these institutions. Please consult with a counselor for specific information regarding your intended major at the specific college/university of your choice.

- Select either the California State University General Education (CSU-GE) or Intersegmental General Education Transfer Curriculum (IGETC) for the general education pattern related to your educational goal.
- Complete 18 units in one 'Area of Emphasis' from those outlined below. (Note: where appropriate, courses in the 'Area of Emphasis' may also be counted for a general education area)
- For ALL OPTIONS: complete necessary Chaffey College Graduation and Proficiency requirements.
- All classes listed below transfer to CSU and courses in **BOLD** print also transfer to UC. Please refer to [www.assist.org](http://www.assist.org) for articulation agreements and transfer details.

#### Student Learning Outcomes:

Upon the successful completion of these programs, students should be able to:

1. Develop college-level communication skills; visual, written and oral.
2. Develop college-level critical thinking and information competency skills.
3. Develop community and global awareness and responsibility.
4. Increase their personal, academic and career development.

**Requirements for the Associate in Arts Degree: Units**  
**A. General Education CSU-GE or IGETC: 33-39**

Units necessary to meet CSU-GE or IGETC Certification requirements only.

**B. Areas of Emphasis: 18**

- A minimum of 18 units required in one Area of Emphasis with two or more courses in one discipline.
- Courses selected may also be used to fulfill general education areas; refer to each transfer institution policy.
- All courses transfer to California State University.
- Courses in **BOLD** also transfer to University of California. Refer to ASSIST, the course descriptions in this catalog, or consult with a counselor to be sure of transfer status and credit limitations at the University of California.

**C. Electives: 3-9**

Elective units may be necessary to total 60 overall units required for the Associate Degree. These units must be transferable to the CSU and/or UC for appropriate credit

**Total units for the degree 60**

## AREAS OF EMPHASIS

### 1. ARTS AND HUMANITIES:

[A301/18041/4903.10/24.0103]

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. At least one course must be completed in Arts and one in Humanities. This requirement will be met through the completion of CSUGE or IGETC; students pursuing transfer majors in these areas will be required to take additional courses in Arts and/or Humanities.

American Sign Language	1, 2, 3, 4
Arabic	1, 2, 3, 4
Art	10, 12, 14, 16, 18, 20, 44, 63
Art History	1, 3, 5, 7, 9, 11
Chinese	1, 2, 3, 4
Cinema	25, 26
Dance	1, 2
English	1B, 1C, 32, 33, 68, 70A, 70B, 71, 74, 75A, 75B, 76, 77, 79, 80A, 80B, 81
Fashion Design	20, 45
French	1, 2
History	1, 2, 4, 7, 16, 20, 40
Humanities	5, 6, 20
Interior Design	11, 12
Music	2A, 2B, 4, 5, 6, 7, 8, 21, 22, 26
Philosophy	70, 72, 73, 75, 76, 77, 78, 80, 81, 82
Photography	1, 7, 9, 10
Spanish	1, 2, 3, 3SS, 4, 4SS, 8, 13, 14, 16
Theatre	1, 4, 5, 10, 12

### 2. SOCIAL & BEHAVIORAL SCIENCES:

[A302/18042/4903.30/24.0103]

These courses emphasize the perspectives, concepts, theories and methodologies typically found in the vast variety of disciplines that comprise study in the Social and Behavioral Sciences. Students will study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate.

Administration of Justice	1
Anthropology	2, 3
American Sign Language	18
Child Development and Education	2, 4, 6
Communication Studies	2, 4, 6, 8, 12, 14, 72, 74, 76, 78
Economics	1, 2, 4, 8
Education	10
Geography	1, 10, 11
Gerontology	11, 18, 22, 23
History	1, 2, 4, 5, 6, 7, 9, 10, 12, 16, 17, 18, 19, 20, 21, 25, 40, 50, 51, 70, 71
Political Science	1, 2, 3, 4, 7, 10, 21, 25, 32
Psychology	1, 5, 20, 21, 25, 41, 65, 80
Social Science	10, 17
Sociology	10, 14, 15, 16, 18, 25, 26, 70, 80

### 3. MATHEMATICS & SCIENCE:

[A303/18043/4902.00/30.0101]

These courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in Math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

At least one course must be completed in Math and one in Science. This requirement will be met through the completion of CSUGE or IGETC; students pursuing transfer majors in these areas will be required to take additional courses in Math and/or Science.

Anthropology	1 or 1+1L
Astronomy	26, 35
Biology	1, 2, 3, 10, 12, 14, 20, 22 23 or 23+23L, 61, 62, 63
Chemistry	7, 8, 9, 10, 12, 24A, 24B, 70, 75A, 75B
Computer Science	1, 2, 3, 21
Earth Science	1 or 1+1L, 5 or 5+5L
Engineering	26, 30, 50, 52, 60, 71
Geography	4 or 4+5, 6
Geology	1, 2
Mathematics (beyond Intermediate Algebra)	3, 4, 25, 31, 61, 65A, 65B, 75, 81, 85
Nutrition & Food	5, 15
Physical Science	10
Physics	5 or 5+6, 20A, 20B, 30A, 30B, 44, 45, 46, 47
Social Science	10
Statistics	10

### 4. BUSINESS & TECHNOLOGY

[A304/18044/4999.00/30.9999]

These courses emphasize the integration of theory and practice within the fields of business and technology. Students will develop the ability to effectively manage and lead organizations. Students will demonstrate an understanding of the place of business and technology within the global economy. Students will critically apply ethical standards to business practices and decisions. Technology represents the sum of a society's practical knowledge and is integrated throughout all aspects of business in our modern world. In this area of emphasis, technology courses are those that apply technical knowledge or tools in a discipline, such as Hotel and Food Service Management, Fashion, and Accounting; business courses would be those pertinent to all areas such as Business, Economics, Statistics, and Management. Students choosing this area of emphasis are required to take at least one course in business and one in technology.

Accounting	1A, 1B
Administration of Justice	1, 2, 4
Automotive Technology	10
Broadcasting	3, 55, 60, 62
Business	10, 28A, 28B
Business: Management	11, 40
Business and Office Technologies	61, 64A
Computer Information Systems	1, 4
CIS: Programming	1, 3
Computer Science	1, 2, 3
Correctional Science	1
Drafting	20, 21
Economics	2, 4
Fashion Design	40, 61, 65
Fashion Merchandising	10, 11, 15, 60
Hotel and Food Service Management	10, 17, 18, 21, 22
Interior Design	10, 21
Mathematics	3, 60
Nutrition and Food	5, 15
Real Estate	10
Social Science	10
Statistics	10



# COURSE DESCRIPTIONS

## HOW TO READ THE COURSE ENTRIES

Courses listed in this catalog apply to the Fall 2015, Spring 2016, and Summer 2016 terms. Courses are ordered numerically within alphabetically arranged subject areas.

- The bolded first line(s) indicate the official course number, a descriptive title, the number of units, and credit-by-exam authority (if applicable). Alpha-suffixes to course numbers indicate either (a) modularized courses where “A” precedes “B”, or (b) courses with variable units.
- The following line identifies the applicability of the course to college credit. All courses listed in this catalog are degree-applicable, non-degree-applicable, or non-credit. A subset of degree-applicable courses are also transferable to the CSU and/or the UC systems and are designated as such.
- The next line identifies the type of instructional delivery and the required range of hours for each delivery method per term.
- The next line identifies the grading schema for the course, which may be letter grade only, pass/no-pass grade only, letter grade with option for pass/no pass grading, or not graded.
- Next are italicized lines indicating limitations on enrollment, prerequisites, corequisites, and advisories (as applicable).
- The course description paragraph follows, with the C-ID number (if applicable) and TOP code assigned to the course appended at the end.

## COURSE NUMBERING

### 1-99

Lower-division transfer and baccalaureate degree level courses. These courses are comparable to those offered in the first two years of a four-year college or university. Courses transferable to the California State University are marked (**CSU**); courses transferable to the University of California are marked (**UC**). Some transferable courses have credit limitations at either CSU or UC (or both); students should consult a counselor for details on these limitations.

### 400-499

Associate degree level courses may be applied to the Associate in Arts and Associate in Science degrees, as well as to vocational certificates.

### 500-599

Non degree applicable foundational and college preparatory courses are not part of the associate degrees nor vocational certificates, although they may be prerequisites to required courses. College credit is assigned and courses may be included in the student educational plan. These courses may be letter grade or pass/no-pass. If graded, the grades are not included in students' degree applicable grade point average computation.

### 600-699

Non-credit courses provide foundational, developmental, occupational, and general education opportunities. They do not earn unit credit, are not considered part of collegiate-level study, and are either not graded or have a pass/no-pass grading schema.

## OTHER INFORMATION

### Course Identification Number (C-ID)

The C-ID Numbering System is a statewide common number identifying specific courses that participating California colleges and universities have determined are comparable in scope and content to courses offered by other California community colleges, regardless of each college's unique numbering system. Because courses may be modified and qualified for or deleted from the C-ID database throughout the year, students should consult [www.assist.org](http://www.assist.org) and an academic counselor to confirm how C-ID qualified courses apply to the four-year college or university to which they plan to transfer.

### Credit by Examination [Cx]

Courses designated [Cx] may be challenged for credit by examination.

### Independent Study

Independent study courses provide individual students challenging and in-depth study on approved topics within any subject area. Independent study proposals must have the approval of the instructor and appropriate administrator. It is expected that the study will not duplicate existing curriculum; rather, it will be of an advanced nature and extend approved courses or series of courses. Interested students should contact discipline faculty for more information.

### Requisites and Advisories

Some courses place limitations on enrollment. These limitations may require successful completion of other courses, concurrent enrollment in other courses, specified assessment scores for English, math, and/or English as a second language, performance criteria, or health and safety conditions. Students not meeting the conditions imposed by these requirements may be unable to register for or may be dropped from any class requiring same. See the “Limitations on Enrollment” section elsewhere in this catalog for more information.

Advisories are recommendations for courses or competencies that students are encouraged - but not required - to meet before or in conjunction with the course to which they are attached.

### Special Topics

Special topics courses offer in-depth study of topics not currently covered in the existing curriculum. Courses may be lecture, lab, or studio. Topics and unit value are determined by the department at the time of offering. Consult each term's Schedule of Classes for specifics.

### Taxonomy of Program Numbers (TOP)

The TOP number, as assigned by the 6th edition of the Taxonomy of Programs, is listed at the end of each course description. This number is included for Systems Office reference and is not intended for student use.

## ACCOUNTING (ACCTG)

### 1A Financial Accounting (4) (CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems 1 or Business and Office Technologies 63.*

Development and communication of financial information that is useful to investors, creditors, and others to make decisions. Course material covered includes the accounting environment, accounting cycle, application of generally accepted accounting principles, ethics, financial statements, operations, investing, and financing activities.

(C-ID ACCT 110)

0502.00

### 1B Managerial Accounting (4) (CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Accounting 1A.*

*Advisory: Completion of Computer Information Systems 1 or experience using spreadsheets.*

Managerial accounting meets the information needs of internal users by developing and communicating information that is useful for management decision-making. Course material covered includes cost terms and concepts, cost behavior, cost control, cost-volume-profit analysis, profit planning and performance analysis in manufacturing and service environments. May be offered as an Honors course.

(C-ID ACCT 120)

0502.00

### 70 Cost Accounting (3) (CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Accounting 1B.*

Fundamentals of cost accounting including theoretical concepts, terminology, planning, controlling, and costing for products, services, and customers. Using cost accounting theoretical concepts, students perform comparative analyses related to product costing for manufacturing, merchandising, and service companies. Students also evaluate both quantitative and qualitative data to assist management with strategic decision-making, planning, and control.

0502.00

### 430 Accounting for Governmental and Not-for-Profit Organizations (4) (Degree-applicable)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Accounting 1A.*

Introduction to the fundamentals of governmental and not-for-profit accounting. Emphasis on accounting for the various fund types and restrictions relevant to government and not-for-profit agencies, with both theoretical and practical aspects explored.

0502.00

### 435 Payroll Accounting (3) (Degree-applicable)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Accounting 1A, 480, or 481.*

Comprehensive overview of federal and state payroll laws and their effect on payroll records and required government reports. Course may be taken every three years as needed to maintain currency with payroll laws.

0502.00

### 460 Commercial Accounting Software (3) (Degree-applicable)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Accounting 1A, and completion of or concurrent enrollment in Computer Information Systems 1.*

Basic concepts and techniques for using commercial accounting software designed for microcomputers in businesses grossing less than \$500,000 annually. How to enter and process data, create reports and interpret the information.

0502.00

### 480 Applied Accounting I (3) [Cx]

*(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to the bookkeeping of a small business, with emphasis on service-oriented sole proprietorships. Skills and tasks covered include journalizing business transactions, maintaining a general ledger system, and preparing and analyzing financial statements. Course is suitable preparation for individuals performing accounting for small businesses.

0502.00

### 481 Applied Accounting II (3)

*(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Accounting 480.*

Continuation of bookkeeping for a small service business, with an introduction to bookkeeping for a merchandising enterprise and accounting for partnerships and corporations. Course culminates in a comprehensive review of full-charge bookkeeping practices, and is suitable preparation for the Certified Bookkeeper exam, and for persons involved with or interested in small business accounting.

0502.00

### 496A,B,C,D Internships in Accounting (1, 2, 3, or 4)

*(Degree-applicable)*

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience for each unit of credit.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Consent of the Accounting Program Coordinator is required.*

*Advisory: Completion of Accounting 460.*

Supervised internship in cooperation with private or public sector employers. Designed to apply knowledge and learn new skills, directly related to the student's program of study, outside of the normal classroom environment. Placement is arranged through the instructor. Participation requirements may vary with the job setting.

0502.00

## ACCOUNTING AND FINANCIAL SERVICES (ACCTGFS)

### 440 Introduction to Financial Planning (3)

*(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to the concepts of the personal financial planning process, including budgeting, cash flow, debt considerations, the economic environment, wealth accumulation, and retirement concerns. Examination of regulation and licensing of investment advisors within the financial planning profession.

0504.00

### 442 Fundamentals of Finance and Investing (3)

*(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to finance theory and its application to investment decisions involving stocks, bonds, mutual funds, government securities, options, and real estate. Topics include asset allocation principles, modern portfolio theory, investment tools and strategies, diversification, and tax implications of investments.

0504.00

### 450 Tax Preparation for Small Business (1.5)

*(Degree-applicable)*

Hours: 24-27 lecture.

Grading: Letter grade only.

Tax consequences of business decisions from the small business owners' perspective. Topics include applicable U.S. and California tax laws, deductions, depreciation, medical and insurance plans, withholding, payroll and income tax liabilities, and retirement plan options.

0502.10

### 451 Volunteer Income Tax Assistance Program I (1)

*(Degree-applicable)*

Hours: 16-18 lecture.

Grading: Letter grade with option for pass/no-pass grade.

*Advisory: Completion of Accounting and Financial Services 453.*

Combining both theory and practical application, this course allows the student to research and analyze current federal and state tax issues and to assist lower income and elderly citizens in the preparation of their tax returns under the supervision of a CPA or certified tax preparer.

0502.10

**452 Volunteer Income Tax Assistance Program II (0.5)****(Degree-applicable)**

Hours: 24-27 laboratory.

Grading: Letter grade with option for pass/no-pass grade.

*Prerequisite: Accounting and Financial Services 451, or a passing grade on the VITA Intermediate IRS exam.*

A continuation of ACCTGFS 451 (VITA I), this course allows the student to research and analyze current tax issues, to interview real taxpayers, and to prepare and electronically file real tax returns under the supervision of a CPA or certified tax preparer. Note: VITA I & II must be taken consecutively in the same academic year. 0502.10

**453 U.S. and California Income Tax Preparation (4)****(Degree-applicable)**

Hours: 64-72 lecture.

Grading: Letter grade only.

U.S. and California income tax principles and tax return preparation as it relates to individuals, sole proprietorships, and other business entities. This course is certified by the California Tax Education Council as fulfilling the 60-hour qualifying education requirement imposed by the State of California for becoming a Registered Tax Preparer. 0502.10

**454 Introduction to the Taxation of Corporations and Partnerships (4)****(Degree-applicable)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Advisory: Completion of Accounting and Financial Services 453, basic computer skills, and some experience with spreadsheets.*

Introduction to the tax issues pertinent to corporations, partnerships, estates, and trusts. Emphasis on the tax code and relevant regulations, as well as the transactions common to these types of entities. Helps prepare students for the Enrolled Agents exam. 0502.10

**465 Financial Accounting for the Non-Accounting Major (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Creation, use, and interpretation of accounting data by the non-accounting business major, from an entrepreneurial perspective. Topics include business structure and financial statement analyses; forecasted financial statements; cash management and budgeting, including capital and operating budgets; management of receivables and payables; and an overview of financing options, banking relations, and credit management. 0502.00

**472 International Trade Finance (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business 61 or equivalent business experience.*

Survey of the fundamentals of international financial management. Topics include the international financial environment, exchange rates, arbitrage, sources of finance for international trade (including commercial banks, government agencies, and non-bank lenders), risk analysis, budgeting, international cash management, and currency investment. Students analyze a variety of international financial management issues and problems through case studies and other techniques. 0508.00

**ADMINISTRATION OF JUSTICE (AJ)**

**While many of the Administration of Justice courses may be challenged for Credit-by-Examination, a limitation to the number of challenges may apply. Contact the office of the Dean of Social and Behavioral Sciences for more information.**

**1 Introduction to the Criminal Justice System (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principles and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies.

(C-ID AJ 110)

2105.00

**2 Concepts of Criminal Law (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Administration of Justice 1.*

Historical development of criminal law, philosophy of law and constitutional provisions, definitions, classification of crime and the application to the system of administration of justice. Legal research, study of case law, methodology, and concepts of law as a social force.

(C-ID AJ 120)

2105.00

**3 Criminal Court Process (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Administration of Justice 1.*

Step-by-step examination of the criminal prosecution process from arrest through final disposition, and the associated court actions taken by the defense and prosecution. Roles and responsibilities of law enforcement, the judiciary, and corrections, viewed as both independent and collectively operating segments within the criminal justice system. Review of past and current criminal justice procedures as they relate to individual Constitutional and procedural rights.

(C-ID AJ 122)

2105.00

**4 Community and the Justice System (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values between culture, religion and law. Roles of justice system agencies and practitioners, focusing on the interrelationships between the various agencies and their interaction with a diverse multicultural population. Analysis of the differences between community-oriented and problem-solving policing, with emphasis on the resultant public perception and effectiveness of law enforcement actions.

(C-ID AJ 160)

2105.00

**5 Legal Aspects of Evidence (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Administration of Justice 1.*

Origin, development, philosophy, and the constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search, and seizure; kinds and degrees of evidence and the rules governing admissibility; judicial decisions interpreting individual rights; and case studies.

(C-ID AJ 124)

2105.00

**6 Juvenile Procedures (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Administration of Justice 1.*

Examination of the origin, development, and organization of the Juvenile Justice System as it evolved within the American Justice System. Course explores the theories that focus on juvenile law, courts and processes; and the constitutional protections extended to juveniles administered in the American Justice System. Course also includes evaluation of factors that contribute to delinquency, as well as those that aid in its prevention/repression.

(C-ID AJ 220)

2105.00

**7 Criminal Investigation (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Administration of Justice 1.*

Course addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, sources of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process. Course also includes fundamentals of investigation, collection and preservation of physical evidence, scientific aids, modus operandi, fingerprints, polygraphs, follow-up, and case preparation.

(C-ID AJ 140)

2105.00

**8 Criminology (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Administration of Justice 1.*

Sociological analysis of crime, criminal behavior, and the criminal justice system. Explores the history and social construction of crime and criminality and examines the definition of crime and its violations as well as the laws and methods used to control criminal behavior. Discusses the measurement of crime and basic theoretical explanations of criminal behavior.

(C-ID SOCI 160)

2105.00

**9 Crime Scene Management and Forensic Evidence (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Administration of Justice 1.*

An introduction to the role of forensics in criminal investigations including methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents and controlled substances.

(C-ID AJ 150)

2105.40

**407 California Substantive Law (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Administration of Justice 1.*

Study of the substantive laws commonly encountered by municipal and state police officers, investigators, prosecutors, defense attorneys, and criminal justice employees. Crime identification and classification, including elements of specific and general intent crimes per the California Penal Code and other California-specific bodies of law. Scope of course includes misdemeanor and felony violations of the law, status offenses, and strict liability offenses.

2105.00

**408 Patrol Operations (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Administration of Justice 1.*

Responsibilities, techniques, and methods of police patrol. Topics include purpose and types of patrol, communications, observations, tactics, recording, courtroom testimony, and community relations.

2105.00

**410 Narcotics and Vice Investigation (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Vice control (gambling, prostitution, sex crimes, alcohol, etc.) and the identification of narcotic and dangerous drug use. Detection, suppression, arrests, prosecution, and offenses as stipulated in the California Penal Code, Health and Safety Code, Welfare and Institutions Code, Business and Professional Code, and Vehicle Code. Topics include: surveillance, court testimony, probable cause, search warrants, and court decisions related to the narcotic and vice offenders. Special consideration is given to physical evidence and the Uniform Control Substance Act.

2105.00

**412 Writing for Criminal Justice Professionals (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 455, or eligibility for English 475 or completion of English 575, or eligibility for English as a Second Language 475 or completion of English as a Second Language 558.*

Different types of written reports prepared by criminal justice professionals. Students prepare misdemeanor, felony, pre-sentencing, parole/probation and administrative reports, organizing and presenting the information obtained from investigations, interviews and interrogations. Topics include content; criminal elements; correct style and structure; clarity and conciseness; grammar, punctuation, and spelling; neatness; completeness; and accuracy. The importance of quality reports is stressed.

2105.00

**413 Police Supervision, Leadership, and Management (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Administration of Justice 408.*

Role, function, and duties of the law enforcement supervisors and managers. Topics include defining the mission of law enforcement agencies; organizational structure;

patrol operations, scheduling and deployment; department policies and procedures, personnel training; performance evaluations, selection, promotion of personnel; oral and written communications, including response to complaints and community concerns.

2105.00

**AERONAUTICS**

(SEE AVIATION MAINTENANCE TECHNOLOGY)

**AMERICAN SIGN LANGUAGE (ASL)****1 Elementary American Sign Language (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

Study of American Sign Language (ASL) including an introduction to current and historical aspects of deaf culture. Skills focus on the basic principles of phrasing, vocabulary, sentence patterns, manual counting and spelling, semantics, and the development of expressive and receptive abilities. Ten hours of supplemental learning in a Success Center that supports this course is required. This course corresponds to the first year of high school ASL.

0850.00

**2 Elementary American Sign Language (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: American Sign Language 1 or one year of high school American Sign Language.*

Continued systematic study of the structure, vocabulary, and conversational strategies of American Sign Language (ASL). Skills focus on the basic principles of phrasing, sentence patterns, manual counting and spelling, semantics, and the development of expressive and receptive abilities. Continued study of the American Deaf Culture history, community and language. Ten hours of supplemental learning in a Success Center that supports this course is required.

0850.00

**3 Intermediate American Sign Language (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: American Sign Language 2 or two years of high school American Sign Language.*

Continued study and review of the structure, vocabulary, and conversational strategies of American Sign Language (ASL). Review of ASL grammar, with special emphasis on idiomatic constructions. Continued study of the American Deaf culture history, community and language; thereby promoting an understanding of the wide variety of cultural issues concerning the Deaf community. Ten hours of supplemental learning in a Success Center that supports this course is required.

0850.00

**4 Intermediate American Sign Language (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: American Sign Language 3.*

Continued study and review of the structure, vocabulary, grammar, and conversational strategies of American Sign Language (ASL). Further development and refinement of ASL fluency in both productive and receptive skills, including mastery of ASL sentence structures. Appreciation and application of Deaf cultural norms, values, and behaviors. Ten hours of supplemental learning in a Success Center that supports this course is required.

0850.00

**18 Introduction to Deaf Studies (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: American Sign Language 1.*

Overview of Deaf history and the origins of American Sign Language. Introduction to the basic issues of Deaf culture and communication. Students will gain an overview of historical and contemporary issues and people in the Deaf community. This course introduces students to the wide variety of issues involved in Deaf Studies, including linguistics, education, sociology, psychology, and interpreting.

0850.00



## ANTHROPOLOGY (ANTHRO)

### 1 Introduction to Biological Anthropology (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Introduction to the concepts, methods of inquiry, and scientific explanations for biological evolution and their application to the human species. Issues and topics include, but are not limited to, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The scientific method serves as foundation for the course.

(C-ID ANTH 110)

2202.00

### 1L Laboratory for Biological Anthropology (3)

(CSU; UC)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Corequisite: Anthropology 1 (may be taken previously).*

Optional laboratory experience coordinated with Anthropology 1. Comparative study of both human and non-human primates, human variation, evolution, genetics, forensic anthropology, and the primate fossil record.

(C-ID ANTH 115L)

2202.00

### 2 Introduction to Archaeology (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Introduction to the concepts, theories, data and models of anthropological archaeology that contribute to our knowledge of the human past. Course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences.

(C-ID ANTH 150)

2202.20

### 3 Introduction to Social and Cultural Anthropology (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Course explores how anthropologists study and compare human culture. Cultural anthropologists seek to understand the broad arc of human experience focusing on a set of central issues: how people around the world make their living (subsistence patterns); how they organize themselves socially, politically and economically; how they communicate; how they relate to each other through family and kinship ties; what they believe about the world (belief systems); how they express themselves creatively (expressive culture); how they make distinctions among themselves such as through applying gender, racial and ethnic identity labels; how they have shaped and been shaped by social inequalities such as colonialism; and how they navigate culture change and processes of globalization that affect us all. Ethnographic case studies highlight these similarities and differences, and introduce students to how anthropologists do their work, employ professional anthropological research ethics and apply their perspectives and skills to understand humans around the globe. May be offered as an Honors course.

(C-ID ANTH 120)

2202.00

## ARABIC (ARABIC)

### 1 Elementary Modern Standard Arabic (4)

(CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

Introduction to the four basic language skills in functional modern Arabic – aural, oral, reading, and writing. Students learn the basics of Arabic script and pronunciation while building a foundational vocabulary. Arabic cultural norms, values, and customs are explored and serve as a basis for additional skill-building practice. Ten hours of supplemental learning in a Success Center that supports this course is required. Corresponds to the first year of high school Arabic.

1112.00

### 2 Elementary Modern Standard Arabic (4)

(CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Arabic 1 or one year of high school Arabic.*

Continued presentation of the four basic language skills in functional modern Arabic – aural, oral, reading, and writing. Skills focus on the continuing practice of Arabic script, correct pronunciation, vocabulary expansion, and applying the rules of grammar and tense to simple declarative sentences and short conversations. Arabic cultural norms, values, and customs are explored and serve as a basis for additional skill-building practice. Ten hours of supplemental learning in a Success Center that supports this course is required. Corresponds to the second year of high school Arabic.

1112.00

### 3 Intermediate Modern Standard Arabic (4)

(CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Arabic 2 or two years of high school Arabic.*

Review of basic Arabic grammar. Introduction to more complex sentence structures and verb tenses. Students use Modern Standard Arabic at an intermediate level in speaking, listening, reading, and writing. Includes intermediate uses of Modern Standard Arabic alphabet, conversation strategies, and cultural interactions. Arabic cultural norms, values, and customs are explored and serve as a basis for additional skill-building practice. Ten hours of supplemental learning in a Success Center that supports this course is required.

1112.00

### 4 Intermediate Modern Standard Arabic (4)

(CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Arabic 3.*

Continued study of Modern Standard Arabic leading to a more accurate understanding and use of the language through placing emphasis on advanced-level speaking, reading, writing, and listening skills. Sophisticated vocabulary and complex grammatical structures are applied to speaking and writing assignments. Reading comprehension in Arabic is developed in the context of cultural texts and themes. Ten hours of supplemental learning in a Success Center that supports this course is required.

1112.00

## ARCHITECTURE

(SEE DRAFTING)

## ART (ART)

(ALSO SEE ART HISTORY)

### 10 Fundamentals of Design in Two Dimensions (4)

(CSU; UC)

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to the concepts, applications, and historical references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression.

(C-ID ARTS 100)

1002.00

### 12 Fundamentals of Design in Three Dimensions (4)

(CSU; UC)

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Art 10.*

Introduction to the fundamentals of design in three-dimensions with applications in a variety of sculptural media such as paper, plaster, wire, and mixed-media. Emphasis on the basic elements and principles of design, analysis of form, as well as the implications of space and time. This is a problem-solving course that encourages ideas/concepts, creative techniques, and manipulation of media in the development of three-dimensional projects.

(C-ID ARTS 101)

1002.00

**14 Introduction to Drawing (3)****(CSU; UC)**

Hours: 24-27 lecture; 72-81 laboratory.

Grading: Letter grade only.

Introduction to freehand drawing with an emphasis on drawing from direct observation. Focuses on the development of perceptual skills and the fundamentals of composition. Exploration of traditional and experimental approaches using a variety of black-and-white media.

(C-ID ARTS 110)

1002.10

**15 Color Theory (3)****(CSU)**

Hours: 24-27 lecture; 72-81 laboratory.

Grading: Letter grade only.

Study of the principles, theories, and applications of additive and subtractive color in two dimensions. Topics include major historical and contemporary color systems, production of projects in applied color, and the elements of design as they apply to color.

(C-ID ARTS 270)

1002.10

**16 Introduction to Painting (3)****(CSU; UC)**

Hours: 24-27 lecture; 72-81 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 10 or 14.*

Introduction to painting in acrylic media. Exploration of traditional and contemporary approaches and techniques. Development of painting as a means of self-expression. Includes fundamentals of color theory and composition as applied to painting.

1002.10

**18 Introduction to Ceramics (3)****(CSU; UC)**

Hours: 24-27 lecture; 72-81 laboratory.

Grading: Letter grade only.

Introduction to materials, tools, and processes used in making pottery and other ceramic art. Student learns use of potter's wheel, hand building, and traditional ceramics terminology as well as contemporary concepts of fired clay as art.

1002.30

**20 Ceramic Sculpture (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to three-dimensional (3D) design, sculptural processes, concepts, and materials with the emphasis on clay.

1002.20

**30 Figure Drawing (3)****(CSU; UC)**

Hours: 24-27 lecture; 72-81 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 14.*

Drawing the human form from the model with a focus on structure, anatomy, and its expressive design. Particular emphasis on descriptive, interpretive, and contemporary approaches to drawing the figure, as well as conceptual strategies. Includes exploration of various methods, techniques, and media in life drawing.

(C-ID ARTS 200)

1002.10

**32 Intermediate Drawing (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 14.*

Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of color media, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing. Students are encouraged to develop work for a portfolio.

(C-ID ARTS 205)

1002.10

**34 Intermediate Painting (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 16.**Advisory: Completion of Art 10.*

Continued study of painting in acrylic media. Emphasis placed on solving complex formal and conceptual problems. Individual research in contemporary painting practices. Students are encouraged to develop work for a portfolio.

1002.10

**35 Intermediate Ceramics (3)****(CSU; UC)**

Hours: 24-27 lecture; 72-81 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 18.*

Performance of tasks and procedures designed to further the student's ability to understand and manipulate clay and glazes and types of kiln firings, emphasizing creation of beautiful, utilitarian, well-made objects.

1002.30

**40 Advanced Ceramics (3)****(CSU; UC)**

Hours: 24-27 lecture; 72-81 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 35.*

Advanced use of the potter's wheel and off-wheel construction methods. Attention is given towards the development of a personal aesthetic and conceptual focus. Designed to prepare students to continue working with clay and glazes.

1002.30

**44 Mixed-Media Studio and Theory (3)****(CSU; UC)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Art 12.*

Designed to explore experimental uses of materials and concepts through techniques such as collage, assemblage, installation and site-specific works, as well as contemporary art and craft. Development of both 2D and 3D mixed-media projects may include fiber, metal, wood, plastic, and found objects. Emphasis on technical processes, conceptual strategies, and personal expression.

0614.10

**50 Introduction to Sculpture (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 12.*

Introduction to three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices in three and four dimensions. Various sculpture methods are practiced with attention to creative self-expression and historical context.

1002.20

**62A Illustration I (3) [Cx]****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 10 or 14.**Advisory: Completion of Art 16, 44, or 63.*

Study of significant works of art in the field of illustration and graphic design to increase awareness in the visual expression of social and individual concepts and ideas. Emphasis on the development of basic skills in visual communication.

1013.00

**62B Illustration II (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 62A.*

Illustration techniques and concepts with extensive emphasis on creating visual solutions to applied problems, stylistic and conceptual innovation, and portfolio development.

1013.00

**63 Introduction to Graphic Design (4) [Cx]****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to the essential principles of digital imaging and design. Overview including historical aspects of the fields of art and design in relation to the rise of digital media and principles of portfolio development. Project-based experience, with current hardware and software used for design and printing of contemporary visual communications.

0614.60

**73 Typography and Layout (4)****(CSU)**

Hours: 48-54 lecture; 48-54 laboratory

Grading: Letter grade only.

*Prerequisite: Art 63 or 82.*

Introduction to the principles and practice of the most universally important skills in the design field. Typography and page composition for all design contexts. Projects are directed toward both print media and screen-based projects.

1030.00

**82 Introduction to Multimedia (4) [Cx]**  
**(CSU)**

Hours: 48-54 lecture; 48-54 laboratory  
Grading: Letter grade only.

*Advisory: Completion of Art 10 and basic keyboarding skills are recommended.* Introduction to digital media production for interactive media: the Web, CD-ROM, DVD-ROM, and interactive kiosks. Emphasis on developing visual language using contemporary tools and techniques for multimedia authoring with graphic and interactive software. Includes introduction to historical aspects and analysis of interactive applications. 0614.10

**83 Internet and Web Design (4)**  
**(CSU)**

Hours: 48-54 lecture; 48-54 laboratory  
Grading: Letter grade only.

*Prerequisite: Art 63.*

*Advisory: Completion of Art 82.*

Principles of website production and design using HTML and streaming video software tools, such as Dreamweaver and Flash. Topics include: visual content design, movie basics, streaming audio and video, text/titles, animation, toolbar functions, libraries, buttons, tweening, masks, sound publishing, editing, interface design, and integration of Web software tools. 0614.30

**89 Student Invitational Exhibition (4)**  
**(CSU)**

Hours: 48-54 lecture; 48-54 laboratory.  
Grading: Letter grade only.

*Limitation on Enrollment: Student must pass faculty review of creative project proposal and portfolio in November for the following Spring term course and exhibition. Interested students should contact an art or photography faculty member no later than September 1. Portfolios and applications are due in early November.*

Honors course for highly motivated studio art, digital media, and photography students who meet portfolio requirements. This course will involve in-depth independent research involving critical evaluation of concepts and ideas in the context of contemporary artistic expression, as well as rigorous exploration of media and techniques. In conjunction with the Wignall Museum of Contemporary Art Director/Curator and discipline faculty, selected students cooperatively undertake all phases of mounting a professional quality exhibition of their artworks. 1001.00

**98A,B,C Independent Study: Art (1, 2, 3)**  
**(CSU and UC credit limitations)**

Grading: Letter grade only.

*Limitation on Enrollment: Instructor signature is required for registration.*

Special project course designed for the capable, well-motivated student. Each student explores and develops a project or a paper on a creative area of personal interest. Nature and extent of the project must be decided by student and instructor before the student may sign up for the course. Type and extent of the project determines the number of units allowed. 1001.00

**407 History of Design (3)**  
**(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study of visual communication integrating typography and image. History of graphic design from the invention of writing to the present electronic age. Relationships between art movements, social settings, and graphic communications styles. Emphasis on Western design, with exploration of non-European cultures. 1030.00

**410 Ceramic Glazes (3)**  
**(Degree-applicable)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 18 or Art 20.*

Introduction to materials, equipment, and processes used in the creation and firing of ceramic glazes. 1002.30

**412 Firing Techniques (3)**  
**(Degree-applicable)**

Hours: 24-27 lecture; 72-81 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 18.*

Investigation of concepts and technologies related to firing of raku, low fire, salt, and high fire. Personal growth through individual experimentation is encouraged. 1002.30

**421 Intermediate Ceramic Sculpture (4)**  
**(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Art 20.*

Intermediate investigations of three-dimensional (3D) design, sculptural processes, concepts, and materials with the emphasis on clay. 1002.20

**474 Identity System Design (4)**  
**(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory

Grading: Letter grade only.

*Prerequisite: Art 73.*

The creation of visual identity programs, also known as branding, provides integrated graphic and typographic systems for identifying businesses and organizations in all media and communication contexts. It explains the formal and conceptual organizing considerations that effective branding systems are built on, from initial visual research and concept generation, to final implementation. This course is a final portfolio development class for all Digital Media certificate and degree programs. 1030.00

**478 Illustration on the Computer (3)**  
**(Degree-applicable)**

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

*Prerequisite: Art 63 or 82.*

Introduction to commercial illustration using the computer. Applying understanding of the design features of software into the problem solving process of commercial assignments, ranging from editorial and promotional expression, to informational and children's book illustration. 1030.00

**482 Editing Digital Media (4)**  
**(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory

Grading: Letter grade only.

*Prerequisite: Art 63 or 82.*

Principles of editing for film, video and multimedia. Use of theory, history, process, and techniques to digitally create and edit a film or video production. 0614.00

**484 2-D Motion Graphic Animation (4)**  
**(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory

Grading: Letter grade only.

*Prerequisite: Art 63 or 82.*

Introduction to the art and design of 2-D animation, motion graphics, visual effects, and compositing. Projects include: digital image manipulation, animation principles, editing basics, green screen compositing, animated effects, digital input and output, compression, and an historical and theoretical overview. 0614.60

**488 Portfolio and Presentation (4)**  
**(replaces Art 480)**

**(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory

Grading: Letter grade only.

*Limitation on Enrollment: Instructor signature is required for registration into this course.*

*Advisory: Completion of a substantial number of required courses in an art, graphic communication, or visual communications major or certificate.*

Preparation and presentation of portfolio in a professional manner. Emphasis on appropriate selection of work, concept improvement, and methods of presentation. Awarding of certificate is dependent upon successful completion of this course. 1001.00

**ART HISTORY (ARTH)**

(ALSO SEE ART)

**1 Contemporary Art: 1945 - Present (3) [Cx]**  
**(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Historical study of the diverse artistic movements from the end of WWII to the present, tracing the discourse of late modernism to postmodernism. Visual language, art terminology, philosophical issues and evolving art theories are used to examine works from a wide assortment of contexts. Course is an essential introduction to contemporary art for studio art, graphic design, photography, and art history majors. May be offered as an Honors course. 1001.00

**3 Survey of Western Art from Prehistory through the Middle Ages (3) [Cx]**  
**(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Survey of the architecture, sculpture, and painting of past cultures from the ancient beginnings of art of the Western World through the Medieval Period. Analysis of how symbolism and artistic style reflect the daily life, philosophy, religion, values, and concerns of each culture and historical period.

(C-ID ARTH 110)

1001.00

**5 Survey of Western Art from Renaissance to Contemporary (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Survey of the architecture, sculpture, and art of past cultures of the Western World from the Renaissance through the Modern period. Analysis of how symbolism, visual concepts, and artistic style reflect the philosophy, religion, values, and concerns of each culture and historical period.

(C-ID ARTH 120)

1001.00

**7 Arts of Africa, Oceania, and Indigenous North America (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Survey of visual and material culture within the historical context of selected civilizations of the South Pacific islands, sub-Saharan Africa, and indigenous North America from ancient to modern times.

(C-ID ARTH 140)

1001.00

**9 Art of the Ancient Americas (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Survey of visual and material culture within the historical context of selected ancient American civilizations in Mexico, Central America, and South America up to European contact.

(C-ID ARTH 145)

1001.00

**11 Survey of Asian Arts (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Survey of the art, architecture, religion, and history of India, south and southeast Asia, China, Korea, and Japan from prehistory to modern times. Art styles and characteristics unique to each culture and their function within the ideology of that society are considered. Problems involved in viewing Asian art outside of its original cultural context are discussed at length.

(C-ID ARTH 130)

1001.00

**ASTRONOMY (ASTRON)****26 Stars and Galaxies (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Math 410.*

Overview of the universe beyond our solar system. Understand stars and galaxies by understanding the processes that shape them. Use observations from telescopes and spacecraft, the scientific method, and basic physical concepts. Briefly consider relativity, spacetime, and the history and fate of the universe.

1911.00

**35 Planets and the Solar System with Lab (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Math 410.*

Study of planets, moons, and other bodies within solar systems. Using observations from telescopes and spacecraft, the scientific method and basic concepts from physics, geology, and other sciences to identify and explain formative processes and unique characteristics. Laboratory activities include formulating a scientific investigation; selecting the appropriate tools and methods of planetary science to image, measure, and/or observe phenomena; analyzing data; identifying error; and reporting results.

1911.00

**AUTOMOTIVE TECHNOLOGY (AUTOTEC)****10 Service and Repair (4) [Cx]****(CSU)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to the automotive service industry. Basic principles of the operation of engines, transmissions, driveline, steering, suspension and braking systems, and heating and air conditioning systems. Scheduled and preventative automotive maintenance and minor services are performed. Students also develop a written career plan, outlining their educational, certification, and licensing goals.

0948.00

**15 Automotive Electricity and Electronics (2) [Cx]****(CSU)**

Hours: 24-27 lecture; 24-27 laboratory.

Grading: Letter grade only.

Basic automotive electricity and electronics. Diagnosis of typical automotive electrical concerns using wiring diagrams/schematics and various testers. Emphasis on the use of digital multimeters for troubleshooting. Foundation course for electricity and electronics subject matter found in other automotive technology courses.

0948.00

**407 Introduction to Hybrid Vehicles (2.5)****(Degree-applicable)**

Hours: 24-27 lecture; 48-54 laboratory.

Grading: Letter grade only.

An introduction to the operational theory, maintenance, and other service requirements for gasoline-electric hybrid vehicles. Safety requirements specific to hybrid vehicles are stressed.

0948.40

**416 Basic Automotive Air Conditioning Systems (2) [Cx]****(Degree-applicable)**

Hours: 24-27 lecture; 24-27 laboratory.

Grading: Letter grade only.

Operation, service, and repair of automotive heating, ventilation, and air conditioning systems, with emphasis on environmental protection, including refrigerant recycling. Course provides the information necessary to qualify for refrigerant recovery, recycling, and handling certification by the United States Environmental Protection Agency (EPA), and prepares students to take the Automotive Service Excellence (ASE) A7 Technician Certification exam.

0948.00

**417 Brakes (4) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Automotive Technology 10 and 15.*

Diagnosis, service, and repair of disc and drum brake systems and related hydraulic, mechanical, and electrical systems. Anti-lock brake operation is introduced. Course supports the Student Learning Outcomes of the Automotive Technology program by preparing students to take the Automotive Service Excellence (ASE) A5 Technician Certification exam.

0948.00

**418 Suspension and Steering Systems (4) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Automotive Technology 10 and 15.*

Operation, diagnosis, and repair of steering and suspension systems, including wheel and tire service, and two- and four-wheel alignments. Course supports the Student Learning Outcomes of the Automotive Technology program by preparing students to take the Automotive Service Excellence (ASE) A4 Technician Certification exam.

0948.00



**422 Fuel, Ignition, and Emission Control Systems (5) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Automotive Technology 10 or 450, and Automotive Technology 15, 429 or 455.*

Operation and interrelationships of the fuel, ignition, emission control, and exhaust systems. Emphasis on the diagnosis of engine performance and related emissions. This course – together with Automotive Technology 423 - supports the Student Learning Outcomes of the Automotive Technology program by preparing students to take the Automotive Service Excellence (ASE) A8 Technician Certification exam, or the BAR California A8 Equivalent exam. 0948.00

**423 Engine Management Systems and Drivability (4) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Automotive Technology 422.*

Computer control of the ignition, fuel, and emissions systems. Emphasis on diagnosis and correction of conditions affecting engine performance. This course – together with Automotive Technology 422 - supports the Student Learning Outcomes of the Automotive Technology program by preparing students to take the Automotive Service Excellence (ASE) A8 Technician Certification exam, or the BAR California A8 Equivalent exam. 0948.00

**427 Engine Operation and Service (5) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture; 96-108 laboratory.

Grading: Letter grade only.

Automotive engine operation, service, and repair. Machine work and the use of specialized equipment to diagnose and test engine conditions is emphasized. Course supports the Student Learning Outcomes of the Automotive Technology program by preparing students to take the Automotive Service Excellence (ASE) A1 Technician Certification exam. 0948.00

**429 Advanced Automotive Electrical Systems (4) [Cx]****(Degree-applicable)**

Hours: 40-45 lecture; 72-81 laboratory.

Grading: Letter grade only.

*Prerequisite: Automotive Technology 15 or 455.*

Operation and service of automotive electrical systems. Emphasis on reading wiring diagrams and using test equipment to diagnose and troubleshoot electrical/electronic systems. Prepares students to take the Automotive Service Excellence (ASE) A6 Technician Certification exam or the BAR California A6 Equivalent exam. 0948.00

**430 Engine Rebuilding - Upper Engine (5)****(Degree-applicable)**

Hours: 48-54 lecture; 96-108 laboratory.

Grading: Letter grade only.

Provides the knowledge and skills needed by automotive machinists. Reconditioning of automotive gasoline and diesel engines, including inspection, measuring, and machining of valve train components and construction of cylinder head assemblies. 0948.00

**431 Engine Rebuilding - Lower Engine (5)****(Degree-applicable)**

Hours: 48-54 lecture; 96-108 laboratory.

Grading: Letter grade only.

Provides the knowledge and skills needed by automotive machinists. Reconditioning of automotive gasoline and diesel engines, including inspection, measuring, and machining of lower engine components and the reassembly of cylinder blocks. 0948.00

**432 Manual and Automatic Transmissions, Transaxles and Drive Trains (5) [Cx]****(Degree Applicable)**

Hours: 48-54 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Automotive Technology 10 or 450, and Automotive Technology 15, 429 or 455.*

Diagnosis, maintenance, repair and overhaul of automatic and manual transmissions, transaxles and drive trains, to include four-wheel and all-wheel drive systems. Special emphasis on the use of diagnostic equipment and methods for accurately determining transmission and transaxle conditions. Prepares students to take the Automotive Service Excellence (ASE) A2 and A3 Technician Certification exams. 0948.00

**435 High Performance Engine Building and Blueprinting (5)****(Degree-applicable)**

Hours: 48-54 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Automotive Technology 430 and 431.*

Students develop advanced skills in automotive machining operations, use of precision measuring tools, and high performance engine modification and assembly techniques. Upon completion of this course, students will be able to “blueprint” an engine to industry standards. 0948.00

**443 Engine and Emission Control Training Level I (4)****(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Engine and Emission Control Training is intended to provide students with fundamental knowledge of engine and emission control theory, design, and operation. Students who successfully complete this training will have met the first step of the Bureau of Automotive Repair's (BAR) training requirements for inexperienced or minimally experienced candidates for the Smog Check Inspector License. Candidates for the Smog Check Inspector license who do not meet BAR specified requirements must complete this training before proceeding to Level 2 Smog Check Training. Candidates who meet the BAR specified requirements are not required to complete this training. BAR specified requirements: Possess ASE A6, A8, and L1 certification; or possess an AA/AS degree or Certificate in automotive technology and have 1 year experience; or have 2 years of experience and have completed BAR specified training. 0948.00

**450 General Automotive Technician A (12)****(Degree-applicable)**

Hours: 144-162 lecture; 144-162 laboratory

Grading: Letter grade only.

Designed for students who want the occupational training required for employment as an automotive service technician. Content is similar to other courses offered individually – such as Brakes; and Steering and Suspension – with more emphasis placed on development of marketable skills. 0948.00

**455 General Automotive Technician B (12)****(Degree-applicable)**

Hours: 144-162 lecture; 144-162 laboratory

Grading: Letter grade only.

Designed for students who want the occupational training required for employment as an automotive service technician. Content is similar to other courses offered individually – such as Automotive Electrical Systems A; Fuel, Ignition and Emission Control Systems; and Basic Automotive Air Conditioning Systems – with more emphasis placed on developing marketable skills. 0948.00

**492A-H Special Topics: Automotive Technology (.5-6)****(Degree-applicable)**

Hours: 16-18 lecture hours per unit of credit.

Grading: Letter grade only.

Special interest lecture course in specific automotive technology areas. Topics vary and are determined by the instructor. See the schedule of classes for current term emphasis. May require prerequisites and/or corequisites based upon the content of the course. 0948.00

**492LA-H Special Topics Laboratory: Automotive Technology (.5-6)****(Degree-applicable)**

Hours: 48-54 laboratory hours per unit of credit.

Grading: Letter grade only.

Special interest laboratory course in specific automotive technology areas. Topics vary and are determined by the instructor. See the schedule of classes for current term emphasis. May require prerequisites and/or corequisites based upon the content of the course. 0948.00

## AVIATION MAINTENANCE TECHNOLOGY (AMT)

### 15 Introduction to Aviation Maintenance for Airframe and Powerplant (14) (CSU)

Hours: 144-162 lecture; 240-270 laboratory.

Grading: Letter grade only.

Aerospace materials, hardware, manufacturing practices and safety, blueprint reading, inspection techniques, aircraft servicing, cleaning and corrosion control and FAA regulations as required for an FAA Airframe and/or Powerplant Technician's License. Includes aircraft mathematics, physics, aerodynamics and flight controls, weight and balance calculations and basic AC and DC electricity required for an FAA Airframe and/or Powerplant Technician's License. This course includes General Aeronautics laboratory hours to fulfill FAA practical aeronautical applications in aerodynamics, physics, weight and balance, FAA and manufacturers publications, aircraft materials and processes, blueprint reading, aircraft servicing, electricity and mathematics. 0950.00

### 16A Aviation Materials, Processes, Inspections and Regulations (1) (CSU)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Corequisite: Aviation Maintenance Technology 15.*

General aeronautics laboratory course to fulfill FAA practical aeronautical applications in aerodynamics, FAA and manufacturer's publications, aircraft materials and processes, blueprint reading, aircraft servicing and mathematics. 0950.00

### 16B Aviation Science (1) (CSU)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Corequisite: Aviation Maintenance Technology 15.*

General aeronautics laboratory course to fulfill FAA practical aeronautical applications in physics, weight and balance, electricity, and mathematics. 0950.00

### 25 Powerplant: Aircraft Reciprocating Engines (7) (CSU)

Hours: 72-81 lecture; 120-135 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

Theory, fundamentals, construction, maintenance, and operation of reciprocating and turbojet aircraft engines. Related training for the FAA Powerplant maintenance technician's license. Lab emphasizes reciprocating engine overhaul, repair, installation and operation. 0950.20

### 26 Powerplant: Engine Instrumentation, Lubrication and Electrical (7) (CSU)

Hours: 72-81 lecture; 120-135 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

Aircraft reciprocating engine instrumentation, lubrication systems, electrical and ignition systems. Lab emphasizes reciprocating engine instrumentation and ignition systems overhaul, repair, installation and operation. 0950.20

### 27 Powerplant: Reciprocating Engine Fuel and Auxiliary Systems (7) (CSU)

Hours: 72-81 lecture; 120-135 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

Aircraft reciprocating engine fuel, propeller, and auxiliary systems overhaul, repair, installation, and operation. Lab emphasizes engine induction, cooling, and exhaust systems. 0950.20

### 28A Powerplant: Reciprocating Engine Inspection (1) (CSU)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

*Corequisite: Aviation Maintenance Technology 25 (may be taken previously).*

Powerplant laboratory course to fulfill FAA practical applications relating to aircraft reciprocating engine inspection, air worthiness directives, and type certificate data sheet compliance. Projects include reciprocating engine on-wing inspection (50 and 100 hour) for continued air worthiness, air worthiness directive and type certificate data sheet compliance. 0950.20

### 28B Powerplant: Electrical Systems (1) (CSU)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

*Corequisite: Aviation Maintenance Technology 26 (may be taken previously).*

Powerplant laboratory course to fulfill FAA practical applications relating to aircraft powerplant electrical systems. Projects include engine starters, generators and their controls. 0950.20

### 28C Powerplant: Turbine Engine Auxiliary Systems (1) (CSU)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

*Corequisite: Aviation Maintenance Technology 27 (may be taken previously).*

Powerplant laboratory course to fulfill FAA practical applications relating to aircraft turbine engine auxiliary systems. Projects include turbine engine indicating, ignition, lubrication and fuel systems. 0950.20

### 35 Airframe Structures: Fabrication, Inspection and Repair (7) (CSU)

Hours: 72-81 lecture; 120-135 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

Aircraft metallic and non-metallic structural fabrication, inspection, and repair methods. Related training for FAA airframe maintenance technician's license. Lab emphasizes sheet metal fabrication and repair, composite structures inspections, welding, and alignment of airframe structures. 0950.10

### 36 Airframe Primary Systems (7) (CSU)

Hours: 72-81 lecture; 120-135 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

Aircraft electrical, hydraulic and landing gear systems. Related training for FAA airframe maintenance technician's license. Lab emphasizes electrical and hydraulic landing gear systems, and lighting systems. 0950.10

### 37 Airframe Secondary Systems (7) (CSU)

Hours: 72-81 lecture; 120-135 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

Ice and rain protection systems; fire warning and extinguishing systems; pressurization systems; cockpit instrument systems; avionics systems; oxygen system inspection; antiskid warning systems; door warning lights; and interior light systems. Related training for FAA airframe maintenance technician's license. Lab emphasizes ice and rain protection systems; fire warning and extinguishing systems; pressurization systems; cockpit instrument systems; avionics systems; oxygen system inspection; antiskid warning systems; door warning lights; and interior light systems. 0950.10

### 38A Airframe Structure: Structure Fabrication (1) (CSU)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

*Corequisite: Aviation Maintenance Technology 35 (may be taken previously).*

Airframe laboratory course to fulfill FAA practical applications relating to fabricating airframe structural components, paint application techniques, and inspections of painted surfaces. 0950.50

### 38B Airframe Structure: Hydraulic Systems (1) (CSU)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Aviation Maintenance Technology 15.*

*Corequisite: Aviation Maintenance Technology 36 (may be taken previously).*

Airframe laboratory course to fulfill FAA practical applications relating to inspection, operation, and repair of aircraft hydraulic landing gear systems. 0950.10

**38C Airframe Structure: Aircraft Secondary Systems and Components (1)**  
**(CSU)**

Hours: 48-54 laboratory.  
Grading: Letter grade only.

*Prerequisite:* Aviation Maintenance Technology 15.

*Corequisite:* Aviation Maintenance Technology 37 (may be taken previously).

Airframe laboratory course to fulfill FAA practical applications relating to the proper inspection, operation, and repair of fire-warning/fire extinguishing systems, ice warning systems, and anti-skid systems. 0950.10

**BIOLOGY (BIOL)****1 General Biology (4)**

**(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to the major themes and principles in biology through lecture, laboratory and field experiences. Students investigate topics ranging from molecules to the ecosystem. Meets general education requirements. 0401.00

**2 Environmental Biology (4)**

**(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

An overview of ecosystem structure and function, with critical evaluation of human-caused ecological problems. Topics include overpopulation, resource depletion, pollution, climate change, habitat fragmentation, and loss of biodiversity. Course includes a weekend field trip. 0301.00

**3 California Natural History (4)**

**(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

An ecological introduction to California's natural communities. Lecture topics include energetics, materials cycling, succession, and characteristics of natural communities. Laboratory stresses interrelationships among flora and fauna, geology, and climate, with emphasis on field recognition. Course includes an overnight field trip. 0408.00

**10 Concepts in Biology (3)**

**(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to the major themes and principles of biology including energy flow and metabolism, structure/function relationships, inheritance patterns, ecology, evolution, and diversity of biological organisms. Students investigate these themes through topics at various levels of organization ranging from molecules to ecosystems. 0401.00

**12 Introduction to Human Genetics (3)**

**(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

General introduction to the fundamentals of human heredity. Topics include patterns of inheritance, DNA structure and function, the role of mutation in genetic diseases and cancer, the interaction between genes and the environment, and recent advances in biotechnology and its impact on society. 0401.00

**14 Health Science (3)**

**(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Human health and wellness. Topics include mental health; nutrition; abuse of drugs, alcohol and tobacco; sexually transmitted diseases and other communicable and non-communicable diseases; physical fitness; and many other aspects of positive health. May satisfy the health education unit requirement for a teaching credential in the state of California. 0837.00

**20 Human Anatomy (4)**

**(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite:* Eligibility for English 1A as determined by the Chaffey assessment process, or satisfactory completion of English 475 or English as a Second Language 475.

A systematic study of the microscopic and macroscopic structures of the human body, from cellular to organ system levels of organization. Emphasis on cell structures, integumentary, skeletal, muscular, respiratory, cardiovascular, nervous, sensory, digestive, urinary, endocrine, and reproductive systems. Includes considerations of pathologies and disorders of these systems. This is a Cal State/UC transferable course which is intended for biology, general education, kinesiology and health related majors..

(C-ID BIOL 110B)

0410.00

**22 Human Physiology (4)**

**(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite:* Biology 20, and Chemistry 9 or 10 or 1 year of high school chemistry.

The dynamic nature of life processes in the human body, including the physiology of the cell and the functions and interrelations of the organ systems. The course includes the study of the physiological principles, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system, and organism level. The Lab emphasizes experimentation and scientific reasoning.

(C-ID BIOL 120B)

0410.00

**23 General Microbiology (3)**

**(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite:* Biology 22 or 61.

Introduction to microbiology, with strong emphasis on microorganisms pathogenic to humans. Topics include microbial morphology, genetics, taxonomy, and metabolism; the infectious disease process; mechanisms of controlling microbes; and immunology. 0403.00

**23L General Microbiology Laboratory (2)**

**(CSU; UC)**

Hours: 96-108 laboratory.

Grading: Letter grade only.

*Corequisite:* Biology 23 (may be taken previously).

Introduction to microbiology laboratory techniques. Methods of culturing, staining, biochemically analyzing, and classifying microorganisms. 0403.00

**30 Beginning Medical Terminology (3)**

**(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Applied medical etymology including the origin, correct spelling, pronunciation, meaning, and current usage of common medical terms, disorders, and medical treatments in the context of body systems. Application of relevant vocabulary to clinical records and reports, emphasizing roots, prefixes, infixes, suffixes, medical abbreviations, symbols, and terms common in patients' records and laboratory reports. 0401.00

**61 Introduction to Cell and Molecular Biology (5)**

**(CSU; UC)**

Hours: 64-72 lecture, 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite:* Chemistry 10 or 1 year of high school chemistry, and eligibility for Mathematics 25 or higher level math as determined by the Chaffey assessment process or completion of Mathematics 425.

*Advisory:* Completion of English 1A.

An intensive course designed to prepare students for upper division courses in cell and molecular biology. Topics include biochemical, structural, metabolic, and genetic aspects of cells. Laboratory will include experimental design, a variety of techniques (e.g. microscopy, spectrophotometry, electrophoresis), and data analysis.

(C-ID BIOL 190)

0401.00

**62 Biology of Organisms (5)****(CSU; UC)**

Hours: 48-54 lecture, 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Biology 61.*

An introduction to the origin and evolution of life on earth, emphasizing systematics, anatomy, physiology, development and ecology. Lab includes an evolutionary survey of prokaryotes, protists, fungi, plants, and animals.

(C-ID BIOL 130S &amp; 140) 0401.00

**63 Evolutionary Ecology (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Biology 61.*

Introduction to the principles, theories and methods of evolutionary ecology, including evolutionary theory, speciation, physiological ecology, population dynamics, demographics and life history strategies, niche theory, community interactions and community structure, succession, biogeography, ecosystem ecology, biodiversity, and conservation biology. Course includes one or more overnight field trips.

(C-ID BIOL 130S, when combined with BIOL-62) 0401.00

**92A-H Special Topics: Biology (.5-6)****(CSU; UC credit limitations)**

Hours: 16-18 lecture hours per unit of credit.

Grading: Letter grade only.

Specializations in the biological sciences. Prerequisites and/or corequisites may be required for topics that call for specific knowledge or preparation. Topics vary; see class schedule for current term focus.

0401.00

**92LA-H Special Topics Laboratory: Biology (.5-6)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory hours per unit of credit.

Grading: Letter grade only.

Laboratory activities associated with specializations in the biological sciences. Prerequisites and/or corequisites may be required for topics that call for specific knowledge or preparation. Topics vary; see class schedule for current term focus.

0401.00

**98A,B,C Independent Study: Biology (1, 2 or 3)****(CSU and UC credit limitations)**

Grading: Letter grade only.

*Limitation on Enrollment: Instructor signature is required for registration.**Advisory: Students should have successfully completed a transfer-level biology course.*

Course is designed for the capable biology student who wishes to explore and develop an independent project in the biological sciences. Individual inquiry, special techniques, and selected readings are expected. Student and instructor must reach agreement concerning the topic and scope of the project prior to student's registration.

0401.00

**424 Anatomy and Physiology (3) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Biology 30.*

Human anatomy and physiology with emphasis on the structures and functions of the organ systems. Course is primarily intended for students entering related vocational programs.

0410.00

**424L Anatomy and Physiology Laboratory (1)****(Degree-applicable)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Corequisite: Biology 424 (may be taken previously).**Advisory: Completion of Biology 30.*

Laboratory investigation of anatomy and physiology of organ systems from cell through system levels. Course is primarily intended for students entering related vocational programs.

0410.00

**BOTANY**

(SEE BIOLOGY)

**BROADCASTING (BRDCAST)****3 Introduction to Electronic Media (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of the history, development, and importance of radio, television broadcasting and electronic media, including international events. Introduces the aesthetic, cultural, political, social, ethical, and occupational impact of electronic media. Includes technical aspects of telecommunications. Emphasis on theory, research, operations, legal and regulatory issues of commercial/noncommercial broadcasting, popular media, visual culture, public access, Internet, and related emerging technologies.

0604.00

**55 Beginning Audio Production (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to the theory and practice of audio production for radio, television, film and digital recording applications. Principles of digital audio production, digital recording, microphone use and placement, sound effects, audio mixing, and sound design and aesthetics. Practical experience with microphones, multi-track digital/audio recording and mixing, editing, mastering, and control-board cueing. Digitizing and mixing compact disc, DVD, audio/video, and analog sources with music, spoken word, voice-over narration, and sound effects. Integration of sound design in motion pictures, television and the media arts. General F.C.C. rules and regulations pertinent to the broadcast industry. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software.

0604.00

**60 Beginning Single Camera Production (3) [Cx]****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Knowledge of Macintosh computer keyboarding is recommended.*

Introduction to the theory, terminology, and operation of high definition single camera video production. Topics include composition and editing techniques, camera operation, portable lighting, video recorder operation, audio control, and basic editing. Course focuses on the aesthetics and fundamentals of scripting, producing, directing on location, postproduction, and exhibition/distribution. Overview of crew positions and production protocols for Electronic Field Production (EFP), Electronic News Gathering (ENG), commercial, public service announcement, and dramatic stories.

0604.20

**62 Beginning TV Studio Production (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Possession of basic computer skills.*

Introduction to the theory, terminology and operation of a multi-camera studio and control room. Topics include studio signal flow, directing, theory and operation of camera and audio equipment, switcher operation, fundamentals of lighting, graphics video control and recording, and real-time video production. Additional topics include lighting board operation, video signal engineering, and multi-camera line switching techniques for live broadcasts. Students coordinate cameras and on-screen performers, and collaborate with production crew members and master control-room personnel to produce, direct, and edit multi-camera studio productions.

0604.20



**67 Beginning Radio Production (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introductory course in theory and application of audio production techniques for radio. Students gain a basic understanding of audio equipment in both live and pre-recorded broadcasting. Includes recording equipment, mixers, digital audio production, radio program formats, broadcast writing, and announcing skills. Production of various live radio broadcasts on Chaffey College radio and automated media programming. Application of radio production techniques in audio board operation, production of Internet audio/radio streaming audio, digital multi-track recording, mixing, and editing, Study of current FCC rules and regulations. Students examine and explore radio programming concepts, focusing on aesthetics, content, and weekly radio broadcast production. 0604.10

**70 Postproduction for Broadcasting and Cinema (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

Students assemble and create a broadcasting and/or cinematic story. Broadcasting and cinema editing assignments may also include some of the following: commercial/psa, music video, documentary and dramatic student projects. Other post production topics include editing workflows, audio sweetening, title sequences, keying, color grading, picture lock and mastering processes. Students from the photography, graphic arts, digital media, music, and theatre disciplines are encouraged to enroll and contribute to individual productions. 0604.20

**74 High Definition Cinematography (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Possession of basic computer skills is recommended.*

Visual theory, techniques, and methodology of high-definition cinematography applied to the production of dynamic television stories. Integration of Advanced Television Systems Committee (ATSC) broadcast technologies with widescreen videography. Emphasis on aesthetic enhancements in the writing, production, and editing of single camera-produced stories. Students collaboratively produce and/or edit a high-definition video project. 0604.20

**BUSINESS (BUS)**

(ALSO SEE BUSINESS: MANAGEMENT, BUSINESS: MARKETING, BUSINESS: LEGAL STUDIES, AND BUSINESS: PARALEGAL STUDIES)

**10 Introduction to Business (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey in business providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy and practices within the U.S. and a global society. Demonstrates how these influences impact the primary areas of business including: organizational structure and design; leadership, human resource management, organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, financial practices; the stock and securities market; and therefore affect a business' ability to achieve its organizational goals. (C-ID BUS 110) 0501.00

**28A Business Law I (3)****(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Fundamental legal principles pertaining to business transactions. Introduction to the legal process and dispute resolution. Coverage of federal and state court systems. Comprehensive study of contracts under the common law and the Uniform Commercial Code. Other topics include sources of law, business ethics, constitutional law, tort law, agency, business organizations, and criminal law as applied to business. (C-ID BUS 125) 0505.00

**28B Business Law II (3)****(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Business 28A.*

Special applications of law in business. Comprehensive study of commercial paper, creditors' rights, secured transactions, agency and employment, partnerships, corporations, personal and real property, and governmental regulation of business. Students analyze laws and rules, then apply appropriate concepts to factual scenarios in written and oral arguments. 0505.00

**49 Business Decisions Using Basic Quantitative Tools (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Business and management decision-making using basic quantitative tools. Managerial decisions in the areas of marketing, finance, accounting, real estate, insurance, transportation, and logistics. Examples include markups, markdowns, discounts, simple interest, depreciation, financial ratios, compound interest, investment decisions, inventory decisions, and payroll. Instruction in the use of the electronic business calculator is an integral part of the coursework. Students must supply their own business calculator. 0501.00

**60 Business Ethics (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Exploration of various theories and commonly occurring business ethics issues. Systems approaches for making business decisions that are responsible, practical, and defensible. Benefits of implementing value-based business strategies to achieve competitive advantage and profits. Course focus is on systemic implementation of ethical and socially responsible tools, and the integration of ethics into workplace operations. 0506.00

**61 Introduction to Global Business (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Overview of global business concepts and decision-making, with an emphasis on cultural differences. Analyze the social, cultural, legal, environmental, political, technological, and competitive trends within international business and examine the operation and performance of multinational corporations. 0508.00

**88 Business Communication (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Study and application of the principles of ethical and effective business communication. Emphasis on planning, organizing, composing and revising business documents and presentations using word processing software for written documents, and presentation-graphics software to create and deliver professional-level oral reports. Emphasis on development of writing fluency, professional tone and use of proper grammar in routine business communications, including letters, memoranda, business reports (both written and oral), and e-mail. Introduction to business research and the job application process. (C-ID BUS 115) 0607.00

**410 International Business Law (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business 61.*

Legal aspects and ramifications of international trade. Multinational enterprises, sovereignty, technology transfer, arbitration, negotiation and diplomacy. 0508.00

**430 Business Plan Preparation (1.5)****(Degree-applicable)**

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Accounting and Financial Services 465 and Business 45.* Overview of entrepreneurship. Emphasis on the practical aspects of developing a business plan and applying the necessary methods, techniques, and skills for starting and owning an enterprise. Topics include: identification of trends and opportunities, market analysis, promotional and sales tactics, evaluating business locations and e-commerce potential, and financial strategies. 0506.40

**435 The Law of Marketing and Business Competition (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business 28A.*

Introduction to legal principles relevant to the marketing of goods and services. Examination of the impact of the United States Constitution, antitrust, unfair competition, business torts, trademark, copyright, patents, consumer protection, and franchising laws on products, pricing, promotion, and distribution. 0509.00

**492A-H Special Topics: Business (.5-6)****(Degree-applicable)**

Hours: 16-18 lecture hours per unit of credit. Grading: Letter grade only. Specializations in business. See class schedule for current topics. May require corequisites and/or prerequisites based on the content of the course. 0501.00

**496A,B,C,D Internships in Business (1, 2, 3, or 4)****(Degree-applicable)**

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience for each unit of credit.

Grading: Letter grade only.

*Limitation on Enrollment: Consent of Business program coordinator is required for registration.**Corequisite: Concurrent enrollment in any Chaffey College course.*

Supervised internship in cooperation with private, public, and/or non-profit sector employers. Designed to apply knowledge and learn new skills, directly related to the student's program of study, outside of the normal classroom environment. Placement is arranged through the instructor. Participation requirements may vary with the job setting. 0501.00

**BUSINESS: LEGAL STUDIES (BUSL)**

(ALSO SEE BUSINESS AND BUSINESS: PARALEGAL STUDIES)

**10 Introduction to Law and the Legal Process (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Exploration of the roles of the law, the courts, and the participants in our legal system. Examination of legal institutions and practices. Analysis of substantive laws -- from torts and contracts to consumer protection and civil rights -- and their effects. Consideration of the impact of individual plaintiffs, defendants, lawyers and jurists on the law and our legal system. 1401.00

**400 Introduction to Paralegal Studies (3)***(Formerly Business: Paralegal Studies 400)***(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to the roles and duties of a paralegal within the American legal system, and the relationships between paralegals, attorneys, and clients. Topics include: paralegal career options, ethical codes, law office investigations, litigation assistantship, legal research and writing, computer use, and general law office administration. 1402.00

**401 Legal Research and Writing (3)***(Formerly Business: Paralegal Studies 401)***(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business: Legal Studies 400 and Business and Office Technologies 455.*

Fundamentals of legal research, writing, and analysis for the paralegal. Topics include: reading and analysis of statutes; research using primary authorities, secondary sources, and computer-assisted research tools; law office writings, including transmittal and client opinion letters, pleadings, law office memorandums, case briefs, and memorandums of law; and legal citation rules. 1402.00

**404 Law Office Operations (3)***(Formerly Business: Paralegal Studies 404)***(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 60B and Business: Legal Studies 400.*

Introductory course for students pursuing careers as legal office professionals or individuals currently working in a law office wishing to improve their skills. State and federal court systems, legal terminology, preparation of court documents, and the concepts of civil procedures in various areas of the law operative in California are explored. Topics include: structure of the courts, practices and procedures of the law, terminology and vocabulary, preparation of court documents, an introduction to legal research, legal calendaring, and client contact. Hands-on projects include using Microsoft Word or Corel WordPerfect to prepare simulated legal writings and complete legal forms. 1402.00

**BUSINESS: MANAGEMENT (BUSMGT)**

(ALSO SEE BUSINESS, BUSINESS: LEGAL STUDIES, BUSINESS: MARKETING, AND BUSINESS: PARALEGAL STUDIES)

**11 Retail Merchandising and Management (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Role of retailing in serving the needs of the community. Analysis of consumer needs, store location, financial requirements, and legal process of starting a retail operation. Planning for store layout, merchandise mix, vendor negotiation, pricing, displaying, advertising, selling, and controlling of merchandise. 0506.50

**13 Supply Chain Management (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Tools and techniques for design and improvement of any supply chain through the optimal use of information, materials, and technology to improve efficiency and reduce costs. Integration of outside suppliers and customers into an organization's supply chain. Overview of career opportunities within the field. 0510.00

**14 Transportation Management (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Traffic management principles and techniques that facilitate distribution of the world's commerce. Analysis of the major forms of transportation -- motor, rail, air, water, pipeline, inter-modal, and international -- and their integration into a distribution system. Carrier management and selection, including rate structures, scheduling, outsourcing, private fleet operations, and transportation customers. Governmental regulations on tariffs and transportation of hazardous materials. 0510.00

**40 Introduction to Management (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

A survey of management concepts, basic functions, and skills as they apply at all levels within the contemporary work environment. Application of management theory to managerial practices to improve organizational effectiveness and efficiency, and enhance national and international competitiveness. 0506.00

**42 Human Resource Management (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business: Management 40.*

Formulation and implementation of human resource policy concerned with the major aspects of how an organization deals with its people - how it acquires them, utilizes them, rewards them, and separates them. Explores how the personnel functions integrate with the overall strategy of the firm in determining the success of the firm. 0506.30

**44 Introduction to Human Relations (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Assists the individual in the business organization in understanding group and individual dynamics, perception, conflict, motivation, leadership, influence, authority relationships, and causation of behavior. 0506.30

**45 Small Business Ownership and Management (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Business concepts and skills tailored to creating and maintaining a sustainable competitive advantage in a small business. Fundamentals of owning and operating a small business including finance, employment law, and marketing strategies. 0506.40

**430 Warehouse Management and Material Handling (3) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Essential skills for warehouse managers, with emphasis on the planning, protection, productivity, and quality control functions in warehouse and distribution operations. Topics include: warehouse design and layout, effective communications, industry terminology, technology, distribution systems, inventory management and protection, accountability, auditing, and safety rules and regulations. 0510.00

**436 Introduction to Logistics Management (3) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Fundamental concepts of logistics with an emphasis on outbound goods movement. Techniques of organizing, analyzing and controlling logistics systems. Topics include supply chain, packaging, customer service, transportation, warehouse and distribution center site selection, and procurement functions. 0510.00

**440 Principles of Leadership (2) [Cx]****(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

Leadership principles in business. Topics include differentiation between management and leadership; traits and characteristics of natural, charismatic, and situational leaders; styles and tactics used by effective leaders to enhance individual and team performance; problem-solving, coaching, and conflict-resolution skills; and leadership's effects on organizational communication. Students use industry tools to assess their own leadership style and capabilities. 0506.30

**460 Quality Management Principles (3) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

For individuals who want to understand and improve existing processes. Implementation of continuous improvement and the understanding of various quality philosophies and tools. Basic principles, objectives, and policies of a Quality Management program. 0506.00

**480 Principles of Supervision (3) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business 60 or Business: Management 40 or 460.*

Management functions and techniques of supervising and motivating personnel. Topics include employee and management relations, systematic approach to problem solving, supervisor as leader, decision making, strategic planning, employee counseling and discipline, organizing and authority delegation, supervising diversity, conflict management, supervision laws, and case studies in functional supervision. 0506.30

**BUSINESS: MARKETING (BUSMKT)**

(ALSO SEE BUSINESS, BUSINESS: LEGAL STUDIES, BUSINESS: MANAGEMENT, AND BUSINESS: PARALEGAL STUDIES)

**13 Professional Selling (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Concepts and techniques used to sell ideas, products and services, especially the psychological and social aspects of persuasion. Effective tactics in prospecting, pre-approach planning, securing appointments, preparing and making sales presentations, closing strategies, follow-up and maintaining customer relations, and managing a sales territory. Emphasis on problem-solving. 0509.40

**40 Marketing Principles (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business 10.*

Principles and methods of marketing as practiced by successfully managed business firms. Course is management-oriented, covering demand analysis, forecasting, product development, price determination, distribution channels, material handling, advertising, personal selling, and global and Internet marketing. 0509.00

**55 Advertising (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Historical, economic, social, and psychological appeal of advertising. Practical and psychological aspects of product packaging, trademarks, and color. Production techniques for the basic advertising media. Advertising management techniques, campaign scheduling, budgeting, and evaluation. Career opportunities and trends. 0509.10

**402 Introduction to Import/Export (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business 61 or equivalent business experience.*

Fundamentals of importing and exporting goods including essential terms, strategies, organizations, regulations, terms of access, documentation, shipment, and financing involved with the international movement of merchandise. 0508.00

**405 International Marketing (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business 61 or equivalent business experience.*

Theory and practices of international marketing to include market entry strategies, analysis of foreign markets, culture and marketing, product design, pricing, distribution, promotion and sales. 0508.00

**BUSINESS: PARALEGAL STUDIES (BUSPL)**

(ALSO SEE BUSINESS, BUSINESS: LEGAL STUDIES, BUSINESS: MANAGEMENT, AND BUSINESS: MARKETING)

**402 Civil Litigation (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Business: Legal Studies 400 and Business 28A.*

Fundamental aspects of civil procedure, with emphasis on the roles of the paralegal in civil litigation. Topics include evidence gathering and investigation, jurisdiction, venue, initiation of civil proceedings, pleadings (including complaints and answers), filing a lawsuit, discovery procedures, trial preparation and trial assistance, post-trial practice, and alternative dispute resolution. 1402.00

### 403 Evidence (3)

(Degree-applicable)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business: Legal Studies 400.*

Study of the California Evidence Code, the Federal Rules of Evidence, and a paralegal's role in the analysis and application of the rules of civil and criminal evidence. Topics include: evidence gathering and investigation, admissibility of relevant evidence, methods of proving character, modern competency rules, impeachment, testimony by lay and expert opinions, hearsay and hearsay exceptions, constitutional constraints on the admissibility of evidence, the impact of California's 1982 Proposition 8 (Victim's Bill of Rights), and privileges. 1402.00

## BUSINESS AND OFFICE TECHNOLOGIES (BUSOT)

### 40A Beginning Computer Keyboarding (3) [Cx]

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

Beginning course in computer keyboarding with mastery of the alphabetic and numeric keyboard and correct touch-typing techniques. Introduction to the personal computer, word processing, disk management, and formatting of basic business correspondence. 0514.00

### 40B Computer Keyboarding: Speed and Accuracy Development (3)

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 40A.*

Develop computer literacy. Analyze, evaluate, and improve keyboarding speed and accuracy using correct touch-typing techniques and Windows applications. Intense review of letters, numbers, symbols, 10-key, and the production of basic reports, business letters, and memoranda. Proficiency certificate issued after successful completion of course. 0514.00

### 50 Filing and Records Management (3) [Cx]

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

Instruction and simulated work applications using basic filing principles, procedures, and systems defined by ARMA International. Emphasis is placed on information storage of multiple record types and retrieval systems. Also discussed are management aspects of records retention, disposition, and the operation of a records management program. 0514.40

### 60A Microsoft Office Word - Specialist (3) [Cx]

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 40A.*

This module prepares students to use the current word processing application of business software. Students develop job skills while building a foundation for other software applications. Students will be able to create, edit, format and customize, save, print, and retrieve documents. Course helps prepare students for certification testing. Computer assignments are a required part of this course. 0514.00

### 60B Microsoft Office Word - Expert (3)

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 40A and 60A.*

A hands-on approach to advanced features of Microsoft Word: macros, bookmarks, forms, table of contents, indexes, hyperlinks, tables and charts, sorts, tracking in shared documents, customized document formatting using advanced features, autotext and quick parts, templates, citations and bibliographies, and document protection. Computer lab assignments are a required part of this course. 0514.00

### 61 Microsoft Office PowerPoint (1.5)

(CSU)

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 40A and 60A.*

A hands-on introduction to concepts, terminology, and features of a presentation software program to create electronic presentations for support personnel and business managers. Topics include formatting and animating slide texts, charts, tables, and graphics as utilized in business presentations and integration with other software programs. 0514.00

### 62 Microsoft Office Outlook (1.5) [Cx]

(CSU)

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 40A, or a minimum keyboarding speed of 20 words per minute.*

Hands-on introduction to the Outlook functions within the Microsoft Office Suite. Topics include email, electronic calendars, multiple-user conference scheduling, integration of MS Office files including Internet, interface with other programs, and task work flow management. Computer lab assignments are a required part of this course. 0514.00

### 63 Microsoft Office Excel - Comprehensive (3) [Cx]

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 40A and 60A.*

This module integrates the spreadsheet application (MS Excel) into the MS Office suite, and is a full-featured spreadsheet application software offering core and advanced concepts. Emphasis is on creating formulas, using relative and absolute references, editing and formatting, working with templates and chart wizards, using IF functions, sorting and filtering records, creating pivot tables, and integrating with MS Office Suite programs (MS Word). Topics covered help prepare students for Microsoft Office Application Certification Testing. Computer lab assignments are a required part of this course. 0514.00

### 64A Microsoft Office Access - Specialist (1.5)

(CSU)

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 60A.*

Hands-on introduction to the concepts and terminology used to create, use, and manage information contained in databases. Students design tables, queries, forms, and reports using the features of the current database software. Computer assignments are a required part of this course. 0514.00

### 64B Microsoft Office Access - Expert (1.5)

(CSU)

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 64A.*

Mastery of core features and introduction of advanced features of the current Microsoft Office Access database software application for working with databases, tables, reports, forms, and queries. Integration of Access data objects with the other Microsoft Office software. 0514.00

### 400 Job Search and Interviewing Techniques (1.5)

(Degree-applicable)

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 60A.*

Strategies to organize a job search, prepare a marketable resume and cover, create a career portfolio, respond to frequently asked interview questions, and practice successful interviewing techniques. 0514.00

### 410A Microsoft Office Publisher - Specialist (1.5)

(Degree-applicable)

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 60A.*

This hands-on module introduces concepts, terminology, software, hardware, and uses of desktop publishing for business. Emphasis on creating, editing, and printing text, tables, and graphics. 0614.50



**410B Microsoft Office Publisher - Expert (1.5)****(Degree-applicable)**

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 410A.*

This module continues the study of a full-featured desktop publishing software, offering core and advanced concepts. Emphasis is on creating style sheets and master pages, special effects, templates, scanned images, and formatting and managing long documents. 0514.00

**452 Office Financial Recordkeeping (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Recordkeeping procedures used to broaden the skills of the office professional handling business financial records and other supporting documents relevant to the operation of a small business. Includes mastery of the business financial features of the 10-key display calculator with speed and proficiency. 0514.00

**455 Fundamentals of English for Business (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study and review of grammar, punctuation, vocabulary, and sentence structure to prepare students for employment and college-level business writing courses. Overview of sentence structure, paragraphs, business vocabulary, and basic communication skills. Practice in applying basic principles of communication and critical-thinking skills leading to understanding of effective business communications. 0514.00

**460 Proofreading: Text-Editing Skills (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of or concurrent enrollment in Business and Office Technologies 60A and 455.*

Development of the essential skills needed to perform proofreading and text-editing functions for the automated office. Emphasis on formatting and accuracy of input using word processing software and office reference manuals. 0514.00

**462 Machine Transcription and Voice Recognition Software (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 40A or 40B, and completion of or concurrent enrollment in Business and Office Technologies 60A and 460.*

Development of a marketable skill in machine transcription using word processing skills and voice recognition software. Emphasis on increasing transcription skills in punctuation, spelling, vocabulary, and production of mailable business correspondence and reports from dictated, realistic materials from various professions. 0514.00

**465 Speedwriting and Notetaking (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 40A.*

Theory and principles of speedwriting, an abbreviated writing system based on the letters of the alphabet. Vocabulary development and practice taking accurate notes at a rapid rate in offices and other professional settings. 0514.00

**470 Office Systems and Procedures (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Business and Office Technologies 60A and 460.*

Coordination and refinement of the duties and responsibilities of the office professional, including the organization of those duties, the personal qualifications of the office professional, and business office ethics and etiquette in a diverse and global business environment. Emphasis on work procedures, technology in the office, stress- and time-management techniques, team work, customer service, event planning, and business travel arrangements. 0514.00

**471 Administrative Office Management (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to the study and application of basic principles for managing a business office. Strategies to maintain a sound, flexible, and dynamic office organization whose objectives correspond to those of the business. Principles of management that pertain to objectives of the organization, scope and assignment of responsibilities, unity of functions, use of specialization, delegation of authority and responsibility, unity of command, span of control, centralization or decentralization of managerial authority, staffing, and work ethics. 0514.40

**475 Medical Office Procedures (3) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Biology 30, Business and Office Technologies 470, and Business and Office Technologies 40A or 40B.*

Focus on the career of a medical front office assistant. Topics include meeting the patient, scheduling appointments, EHR (electronic healthcare records), storage, management, healthcare coding, billing, telemedicine, collection, financial records, reimbursement medical law, and ethics, HIPAA, (Privacy & Security), data entry using flow sheets, anatomical drawings, accreditation regulation, and quality improvement. 0514.20

**496A,B,C,D Internships in Business and Office Technologies (1, 2, 3, or 4)****(Degree-applicable)**

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience for each unit of credit.

Grading: Letter grade only.

*Limitation on Enrollment: Consent of the Business and Office Technologies Program Coordinator is required.*

*Corequisite: Concurrent enrollment in any Business and Office Technologies course.*

*Advisory: Completion of Business and Office Technologies 470.*

Supervised internship in cooperation with private or public sector employers. Designed to apply knowledge and learn new skills, directly related to the student's program of study, outside of the normal classroom environment. Placement is arranged through the instructor. Participation requirements may vary with the job setting. 0514.00

**CHEMISTRY (CHEM)****7 Chemistry in Everyday Life with Lab (4)****(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory

Grading: Letter grade only.

*Advisory: Eligibility for Math 410 as determined by the Chaffey assessment process or completion of Math 520, or one year of high school algebra.*

General education science course designed for non-science major students who are seeking a lab science course. Introduction to chemistry providing a basic understanding of how scientific measurements are taken and presented, the scientific method, and how chemical principles are applied to everyday life and used to address scientific issues in society. Laboratory work provides hands-on activities to teach laboratory skills and support the concepts presented in the lecture. 1905.00

**8 Chemistry in Society (3)****(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Mathematics 410.**Advisory: Completion of English 475.*

General Education science course designed for non-science major students who are seeking a science course without a lab. The course is an introduction to chemistry providing a basic understanding of how scientific measurements are taken and presented, the scientific method, and how chemical principles are applied to everyday life and used to address scientific issues in society.

(C-ID CHEM 100)

1905.00

**9 Health Science Chemistry (5)****(CSU; UC credit limitations)**

Hours: 64-72 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Eligibility for Mathematics 425 as determined by the Chaffey assessment process, or completion of Mathematics 410 or 401.*

Introduction to the principles of chemistry, including inorganic chemistry, organic chemistry, and biochemistry. Topics covered include measurements, properties and classification of matter, atomic structure, bonding and nomenclature, chemical equations, stoichiometry, gas laws, solutions, acids and pH, equilibrium, nuclear chemistry, and organic and biochemical structure and reactions. Laboratory work provides hands-on activities to teach laboratory skills and support the concepts presented in the lecture. Course is intended for students completing a certificate or degree program in health science, including Vocational Nursing, Radiologic Technology, and Associate Degree Nursing. Course is not intended for science majors.

1905.00

**10 Introductory Chemistry (4)****(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 425 as determined by the Chaffey assessment process, or completion of Mathematics 410, or one year of high school algebra.*

Introduction to the principles of chemistry with an emphasis on measurements, atomic and molecular structure, classification of matter, nomenclature, stoichiometry, chemical equations, gas laws, solutions and acid-base chemistry. Laboratory activities emphasize proper techniques, safety procedures, and experimental exercises in support of lecture content.

(C-ID CHEM 101)

1905.00

**12 Elementary Organic and Biochemistry (4)****(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Chemistry 10.*

Survey of organic chemistry and biochemistry with a focus on biological applications and an emphasis on cellular and organism chemistry. Topics covered include organic functional groups, nomenclature, structure and reactions of organic compounds, structure and biological importance of carbohydrates, lipids, amino acids, proteins, nucleic acids, DNA, and RNA. Laboratory work provides hands-on activities to teach laboratory skills and support the concepts presented in the lecture. Course is primarily intended for transfer students pursuing degrees in health science areas such as bachelor degrees in Nursing, Dental Hygiene, Dietitian, and other health science related degrees. Course is not intended for science majors.

(C-ID CHEM 102)

1905.00

**24A General Chemistry I (5)****(CSU; UC)**

Hours: 48-54 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Chemistry 10 or completion of 1 year of high school chemistry, and eligibility for Mathematics 25 as determined by the Chaffey assessment process or completion of Mathematics 425.**Advisory: Completion of or concurrent enrollment in Mathematics 25.*

First semester General Chemistry for Science and Engineering students. Topics include: atomic structure and periodic properties; types and structure of matter; thermochemistry; chemical reactions; stoichiometry; nomenclature; bonding models and theories; gas, liquid, solid, and solution properties. Laboratory with hands-on activities to reinforce lecture concepts, develop chemical laboratory techniques, and use the scientific methods of inquiry.

(C-ID CHEM 110, and CHEM 120S when combined with CHEM 24B)

1905.00

**24B General Chemistry II (5)****(CSU; UC)**

Hours: 48-54 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Chemistry 24A.**Advisory: Completion of or concurrent enrollment in Mathematics 25.*

Second semester General Chemistry for Science and Engineering students. Topics include kinetics, equilibrium, acid/base/buffers, thermodynamics, electrochemistry, nuclear chemistry, descriptive chemistry, and organic chemistry. Laboratory provides hands-on activities to reinforce lecture concepts, develop chemical laboratory techniques, and use the scientific method of inquiry.

(C-ID CHEM 120S when combined with CHEM 24A)

1905.00

**70 Quantitative Analysis (4)****(CSU; UC)**

Hours: 32-36 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Chemistry 24B.*

Introduction to the methods of gravimetric, volumetric, electrochemical techniques, separation techniques, and instrumental analysis. Course is for science majors, and meets the requirements for chemistry majors, pre-med students, and pre-dentistry students. Parallels the quantitative analysis usually offered in the sophomore year in most four-year colleges and universities.

1905.00

**75A Organic Chemistry I (5)****(CSU; UC)**

Hours: 64-72 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Chemistry 24B.*

First semester in a year-long course in organic chemistry designed for students majoring in science and engineering. Topics cover major classes of organic compounds (aliphatic hydrocarbons, alkyl halides, alcohols, and ethers), and includes nomenclature, structure and stereochemistry, properties, reactions, mechanisms, and spectroscopy. Laboratory provides hands-on activities on the basic techniques of organic chemistry including synthesis, separation, purification, and analysis by using various spectroscopic methods.

(C-ID CHEM 150, and CHEM 160S when combined with CHEM 75B)

1905.00

**75B Organic Chemistry II (5)****(CSU; UC)**

Hours: 64-72 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Chemistry 75A.*

Continuation of Chemistry 75A, expanding the study of organic chemistry to include aromatic compounds, introduction to organometallic compounds, aldehydes and ketones, carboxylic acids and their derivatives, enolates, amines, and introduction to biochemistry. Topics include nomenclature, structure and stereochemistry, properties, reactions, and mechanisms. Laboratory work emphasizes the techniques of organic synthesis, purification, qualitative analysis, and analysis by using various spectroscopic methods.

(C-ID CHEM 160S when combined with CHEM 75A)

1905.00

**CHILD DEVELOPMENT AND EDUCATION (CDE)**

Students enrolled in two corequisite-linked courses consisting of one lecture and one work experience course (i.e. CDE-24 and CDE-24W) must achieve a minimum grade of "C" in both courses to meet course and program requirements.

**1 Principles & Practices in Early Childhood Education (3) [Cx]****(CSU)**

Hours: 48-54 lecture

Grading: Letter grade only.

*Advisory: Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

Developmentally-appropriate practices applied to programs, 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. Course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity.

(C-ID ECE 120)

1305.00

**2 Child Growth and Development (3) [Cx]****(CSU; UC credit limitations)**

Hours: 48-54 lecture

Grading: Letter grade only.

*Advisory: Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

Introductory course examining the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. Emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students observe children, evaluate individual differences, and analyze the characteristics of development of various stages.

(C-ID CDEV 100)

1305.00

**3 Observation and Assessment (3)****(CSU)**

Hours: 48-54 lecture

Grading: Letter grade only.

*Advisory: Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

Course focuses on the appropriate use of assessment and observation strategies to document development, growth, play, and learning to join with families and professionals in promoting children's success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored.

(C-ID ECE 200)

1305.00

**4 Child, Family, and Community (3)****(CSU; UC)**

Hours: 48-54 lecture

Grading: Letter grade only.

*Advisory: Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

An examination of the developing child in a societal context, focusing on the interrelationship of family, school and community and emphasizing historical and socio-cultural factors. Processes of socialization and identity development are highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.

(C-ID CDEV 110)

1305.00

**5 Health, Safety and Nutrition (3)****(CSU)**

Hours: 48-54 lecture

Grading: Letter grade only.

*Advisory: Cardio-Pulmonary Resuscitation (CPR) and first aid training is recommended. Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

Introduction to the laws, regulations, standards, policies and 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. Focus on integrating the concepts into everyday planning and program development for all children.

(C-ID ECE 220)

1305.40

**6 Teaching in a Diverse Society (3) [Cx]****(CSU)**

Hours: 48-54 lecture

Grading: Letter grade only.

*Advisory: Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

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. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling.

(C-ID ECE 230)

1305.00

**7 Curriculum Development: The Creative Arts (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

Introduction to the creative arts for young children. Storytelling, language, visual arts, drama, music, and dance are examined as an integral part of the child's world. Theories and techniques to develop children's creative abilities are explored. Emphasis on creative processes through appreciation of diversity in art and culture. Perspectives on values and problem solving that engage children's participation at all levels.

1305.00

**8 Curriculum Development: Math and Sciences (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

Introduction to how children learn and develop concepts of math and science. Examination of young children's problem-solving abilities in regard to math and the sciences. Examination of theories that reinforce activities designed to practice skills in math and science domains. Introduction of learning strategies and styles are also explored.

1305.00

**23 Introduction to Children with Special Needs (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Child Development and Education 2.**Advisory: Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

Presentation of different types of physical and behavioral difficulties that interfere with normal cognitive, social, and emotional growth. Recognition of these difficulties, where to seek appropriate professional help, and how to work with children with special needs in the home and in the school.

1305.20

**24 Introduction to Curriculum Theory (2)****(CSU)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a negative tuberculosis test within the past 12 months is required.**Prerequisite: Child Development and Education 1, 2, 3, and 4.**Corequisite: Child Development and Education 24W.*

Principles of early childhood growth and development as they apply to appropriate curriculum design. Curriculum planning of cognitive, physical, social, emotional, cultural, creative, and language arts lesson plans for developmentally appropriate environments.

(C-ID ECE 130, when combined with CDE-24W)

1305.80

**24W Practicum I: Supervised Occupational Work Experience (1)****(CSU)**

Hours: 60 hours supervised practicum in various community child development programs.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a negative tuberculosis test within the past 12 months is required.**Corequisite: Child Development and Education 24.*

Supervised occupational work experience practicum demonstrating principles of early childhood growth and development to teaching. Curriculum planning and implementation of cognitive, physical, social, emotional, cultural, creative, and language arts lesson plans in developmentally appropriate environments.

(C-ID ECE 130, when combined with CDE-24)

1305.80

**25 Advanced Curriculum Theory (2)****(CSU)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a negative tuberculosis test within the past 12 months is required.**Prerequisite: Child Development and Education 1, 2, 4, 24 and 24W.**Corequisite: Child Development and Education 25W.*

Advanced principles and practices of curriculum theory of early childhood growth and development and their application through student teaching. Emphasis on health and safety, language capability, cognitive development, and physical needs in the learning environment, as well as development of effective communication skills for teachers. Advanced curriculum planning and implementation of cognitive, physical, social, emotional, cultural, and creative and language arts lesson plans in developmentally appropriate environments, with focus on the creation of an unbiased curriculum and learning environment.

(C-ID ECE 210, when combined with CDE-25W)

1305.80

**25W Practicum II: Supervised Occupational Work Experience (1) (CSU)**

Hours: 60 hours supervised practicum in various community child development programs.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a negative tuberculosis test within the past 12 months is required.*

*Prerequisite: Child Development and Education 1, 2, 4, 24 and 24W.*

*Corequisite: Child Development and Education 25.*

Advanced, supervised application of the principles of early childhood growth and development to student teaching. Emphasis on health and safety, language capability, cognitive development, and physical needs in the learning environment, as well as development of effective communication skills for teachers. Advanced curriculum planning and implementation of cognitive, physical, social, emotional, cultural, and creative and language arts lesson plans in developmentally appropriate environments, with focus on the creation of an unbiased curriculum and learning environment.

(C-ID ECE 210, when combined with CDE-25)

1305.80

**415 Dynamics of Play (3)**

*(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

Analysis of the ways that play affects the social, emotional, and physical development of young children. Methods of analyzing play activities, designing play environments, and facilitating enhanced play experiences are examined.

1305.00

**416 Brain Research and the Implications for Classroom Teaching (3)**

*(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Child Development and Education 2. Proof of a negative tuberculosis test within the past 12 months may be required for some site visits.*

Introduction to a child's brain physiology and functioning. Current brain research and its relevance to educational practices and the guidance of young children. Current brain research findings in the areas of learning and memory, effects of stress and drugs, emotional and intellectual functioning, and gender differences in brain function and behavior for the developing child. Implications of brain research on communicating and interacting with young children in ways that elicit positive behaviors.

1305.00

**CHINESE (CHIN)****1 Elementary Mandarin Chinese (4)**

*(CSU; UC)*

Hours: 64-72 lecture.

Grading: Letter grade only.

Introduction to Mandarin Chinese taught within the context of Chinese culture. Introduction to the customs, cultural practices, and geography of China through lectures, films, web activities, and reading assignments. Focus on the four major skills of language learning - listening comprehension, speaking, reading, and writing - and the grammar and vocabulary necessary to acquire these skills. Ten hours of supplemental learning in a Success Center that supports this course is required. This course corresponds to the first year of high school Chinese.

1107.00

**2 Elementary Mandarin Chinese (4)**

*(CSU; UC)*

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Chinese 1 or one year of high school Chinese.*

Continuing study of Mandarin Chinese taught within the context of Chinese culture. Customs, cultural practices, and geography of China are explored through lectures, films, web activities, and reading assignments. Focus on the further development of conversation, reading, and writing skills. Review of basic structures and expanded knowledge of verbs, grammar, and vocabulary. Emphasis on the communicative approach to language acquisition with emphasis on the appreciation of the culture. Ten hours of supplemental learning in a Success Center that supports this course is required. This course corresponds to the second year of high school Chinese.

1107.00

**3 Intermediate Mandarin Chinese I (4)**

*(CSU; UC)*

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Chinese 2 or two years of high school Chinese.*

Third semester of Mandarin Chinese taught within the context of Chinese culture. Customs, cultural practices, and geography of China are explored through lectures, films, web activities, and reading assignments. Focus on the development of conversation, reading, and writing skills. Development of idioms and more advanced grammar. Emphasis on the communicative approach to language acquisition with special attention to the appreciation of the Chinese culture. Ten hours of supplemental learning in a Success Center that supports this course is required.

1107.00

**4 Intermediate Mandarin Chinese II (4)**

*(CSU; UC)*

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Chinese 3.*

Fourth semester of Mandarin Chinese taught within the context of Chinese culture. Customs, cultural practices, and geography of China are explored through lectures, films, web activities, and reading assignments. Focus on the development of conversation, reading, and writing skills. Development of idioms and more advanced grammar. Emphasis on the communicative approach to language acquisition with special attention to the appreciation of the Chinese culture. Ten hours of supplemental learning in a Success Center that supports this course is required.

1107.00

**18 Chinese Civilization and Culture (3) [Cx]**

*(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

A general introduction to the basic components of Chinese culture as it has developed over the last five thousand years. Topics to be addressed will include the major philosophical thoughts of Taoism, Confucianism, and Buddhism; practices to promote health such as the Martial Arts, Kong Fu, herbal medicine, and acupuncture; customs and festivals like the Chinese Lunar New Year's Day and the Mid-Autumn Moon holiday; their varying and diverse culinary habits, and their rich and illustrious art forms of poetry, painting, and calligraphy. Both historical developments and contemporary tribulations will be examined through selected readings, movies, video clippings, field trips, as well as class discussions in different formats. This course does not presume prior knowledge of China or the Chinese language.

1107.00

**CINEMA (CINEMA)****20 Screenwriting - Cinema (3)**

*(CSU)*

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

Comprehensive overview of scriptwriting for motion picture and cinematic formats. Students employ writing theory and critical analysis of classical literature to formulate story ideas, develop storytelling techniques, enhance narrative structure, and write polished scripts. Various screenwriting software applications are utilized to format, chart, outline, storyboard, and write dynamic stories for motion pictures and cinematic formats.

0601.00

**22 Introduction to Media Writing (3)**

*(CSU)*

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

*Advisory: Basic keyboarding skills are recommended.*

Basic introductory course in writing for film, television, documentary and electronic media. Emphasis on preparing scripts in proper formats, including fundamental technical, conceptual and stylistic issues related to writing fiction and non-fiction screenplays for informational and entertainment purposes in television and electronic media. Includes a writing evaluation component as a significant part of the course requirement.

0604.00

**25 Survey of World Cinemas (3)**

*(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Historical introduction to motion pictures as an art form, through the viewing of international cinematic works. Development of motion pictures as an evolving art and its influence on cinematic story-telling and related visual media. Focus is on the methods of decoding universal signs, symbols, metaphors, and the semiotics of motion picture imagery. Examination of the impact of significant producers, directors, writers, cinematographers, and cinematic innovations.

0612.10



**26 Survey of American Cinema (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Historical overview on the birth of American cinema, silent movie classics, silent comedies and story structure of the Hollywood hero. Analysis and discussion of the portrayals of African Americans, Asians, Latinos, Native Americans and other American national cultures, including representations of class, gender and issues of diversity. General topics include the studio, directors, stars, westerns, musicals, gangster, science fiction, film noir, animation and independent features and short movies.

0612.10

**30 Beginning Motion Picture Production (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

Introduction to the theory, terminology, and process of motion picture production for film and television. Topics include basic cinematography including the operation, function and creative uses of production and post-production equipment, scriptwriting, camera operation, shot composition, lighting, sound recording and mixing, and editing. Classic movie-making techniques are combined with digital and/or Pro 8mm cameras and other technologies to achieve a 'cinematic look' to assigned projects.

(C-ID FTVE 150)

0612.20

**80 Producing for Broadcast and Cinema (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

An in-depth exploration and discussion on producing content for the broadcast and cinema industries. Topics include various programming in the broadcasting, motion picture, corporate, and entertainment industry. Prepares students to plan and achieve educational and career goals in the broadcasting, motion picture, corporate and entertainment industries.

0604.20

**96 Internships in Cinema, Television or Radio (3)****(CSU)**

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience for each unit of credit.

Grading: Pass/No Pass Only

*Prerequisite: Broadcasting 55, 60, 62, 67, 70 or 74, or Cinema 30 or 80.*

Supervised field experience in motion pictures, television, radio, cable station, or other business related to the field of broadcasting and cinema. Course is designed to apply knowledge and learn new skills outside of the normal classroom environment. Placement is initiated by the student and arranged through the instructor. Participation requirements may vary with internship field work and job duties. One course unit equals 60 hours of volunteer/unpaid work or one unit equals 75 hours of paid work. There is a 8-unit maximum for all work experience courses per semester, and a combined total of 16 semester credit hours in all terms. Repetition is allowed per Title 5, section 55253. May be taken twice.

0604.00

**COMMUNICATION STUDIES (COMSTD)****2 Fundamentals of Effective Speaking (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.* Emphasis on preparing and delivering various types of speeches before an audience. Communication theory and speech criticism are included for student application. A variety of situations are provided to prepare the student to speak with greater skill and confidence.

(C-ID COMM 110)

1506.00

**4 Fundamentals of Interpersonal Communication (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

In-depth exploration of the variables of the interpersonal communication processes as they occur in day-to-day, face-to-face human interaction. Current theories of interpersonal communication are analyzed and applied.

(C-ID COMM 130)

1506.00

**6 Fundamentals of Small Group Communication (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Principles of communication in a variety of group contexts. Theory, application, and evaluation of group communication processes including problem solving, conflict management, decision-making, and leadership. Develop competence and confidence as a group member and leader through a combination of theoretical and practical application of small group principles in everyday life. Study and practice in various group activities. May be offered as an Honors course.

(C-ID COMM 140)

1506.00

**8 Fundamentals of Speech Communication (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Survey of the discipline of communication studies with emphasis on multiple epistemological, theoretical, and methodological issues relevant to the systematic inquiry and pursuit of knowledge about human communication. Course includes theories of rhetoric and communication for the development of skills and understanding of verbal and nonverbal communications.

(C-ID COMM 180)

1506.00

**12 Mass Communication and Society (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

A critical examination of the form, content, and influence of the processes of mass communication. Historical overview and examination of mass-mediated reality using theories of rhetoric and symbolic interaction. Special attention given to the impact of both media technology and message content on how we live and what we believe as individuals and as a society. May be offered as an Honors course.

(C-ID JOUR 100)

0610.00

**14 Oral Interpretation of Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Theoretical and practical experience in the oral interpretation of prose, poetry, and dramatic literature. In-depth study of the oral and analytical skills required to perform literature and of the critical skills required to evaluate oral interpretation performance. Recommended for students of speech communication studies, theatre, English, and the teaching professions.

(C-ID COMM 170)

1506.00

**72 Logic and Argumentation (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

The study of argumentation as an oral and written skill with an emphasis on the principles of critical thinking and sound reasoning. Examination of the quality and types of evidence, identification of faulty and misleading arguments, and the development of techniques for defending and refuting arguments. Social and political issues are the basis for research, analysis, and evaluation.

(C-ID COMM 120)

1506.00

**74 Intercultural Communication (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Identification and analysis of processes and problems of communication between people of different cultures. Effects of differences in attitudes, social organization, role expectations, language and nonverbal behavior and their interrelationships. Principles of communication theory as applied to an intercultural setting. May be offered as an Honors course.

(C-ID COMM 150)

1506.00

**76 Gender and Communication (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Communication Studies 8, and eligibility for English 1A as determined by the Chaffey assessment process or completion of English 475 or English as a Second Language 475.*

Examination of communication patterns existing between males and females. Designed to integrate theory and practice, and to heighten students' awareness of the importance of gender as a communication variable. Emphasis on perception, verbal and nonverbal communication in interpersonal, small group and public settings. Communication problems relating to gender are addressed along with listening, assertiveness, negotiation and other conflict management strategies. 1506.00

**78 Family Communication (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Introduction to communication in the family setting. Analysis of how communication-related behavior affects the development, maintenance, enhancement, and deterioration of family relationships. Through group and class discussion, students develop insights about speech variables and communication processes which affect familial interaction. 1506.00

**COMPUTER INFORMATION SYSTEMS: CORE (CIS)****1 Introduction to Computer Information Systems (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Principles and applications of computers, including their role in business and society. Designed to provide computer competency for both Computer Information Systems majors and non-majors. Fundamentals of information systems, database management systems, networking, e-commerce, ethics and security, and computer systems hardware and software components.

(C-ID ITIS 120 and BUS 140)

0702.00

**4 Fundamentals of Microsoft Windows (1.5) [Cx]****(CSU)**

Hours: 24-27 lecture.

Grading: Letter grade only.

Introduction to the terminology, application, and use of the graphical operating system. Topics include installation and setup, file management, security, networking, Internet access and communication, hardware and software maintenance, administrative tools, and others. 0702.00

**15 Microsoft Access Database Design and Development (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems 1.*

Microsoft Access database design and development for database administrators responsible for company-wide database access and control. 0707.20

**50 Introduction to Computer Networks (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems 1.*

This course introduces the architecture, structure, functions, components, and models of the internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. Preparation for the CompTIA Network+ certification exam. 0708.10

**68 Using the Internet (1.5) [Cx]****(CSU)**

Hours: 24-27 lecture.

Grading: Letter grade only.

Introduction to and use of the Internet. Topics include access, hardware, software, protocols, security, communication, file transfer, search tools, e-commerce, and other current Internet and Web technologies. 0709.00

**420 Computer Security Basics (1.5)****(Degree-applicable)**

Hours: 24-27 lecture.

Grading: Letter grade only.

Introduction to security issues affecting individual computers and Internet access. Protection strategies from viruses, Trojan-Horse programs, e-mail attacks, and other forms of intrusion. Selection, installation, and use of anti-virus software. 0701.00

**431 Project Management for Information Technology (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems 1.*

Fundamentals of project management applied to the field of information technology using current project management software. Topics include creating task lists; setting up resources; developing, formatting, and printing the project plan; organizing and formatting project details; tracking progress; measuring performance; and reporting project status. 0702.10

**435 Fundamentals of Microsoft Visio (1.5)****(Degree-applicable)**

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems 1.*

Fundamentals of the popular diagramming software used for business and information technology. Plan, create, and customize flowcharts, project schedules, organization charts, office layouts, network and other IT diagrams, and templates. 0702.10

**COMPUTER INFORMATION SYSTEMS:  
CISCO INTERNETWORKING (CISCO)****1 Cisco Internetworking I (4)****(CSU)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems 1 or equivalent experience.*

First in a four-course sequence that qualifies students to take the Cisco Certified Entry Networking Technician (CCENT) and the more advanced Cisco Certified Network Associate (CCNA) examinations. Topics include: PC hardware/software review, Local Area and Wide Area Networks (LAN's and WAN's), network devices, the Open System Interconnect (OSI) model, media, cable installation, network design, routing, switching, addressing, security, documentation, and basic wireless. 0708.00

**2 Cisco Internetworking II (4)****(CSU)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems: Cisco Internetworking 1 or equivalent experience.*

Second in a four-course sequence that qualifies students to take the Cisco CCENT and CCNA examinations. Topics include: implementing basic LAN and WAN connectivity using routers and switches, TCP/IP addressing, network protocols, and troubleshooting. Students gain hands-on skills through configuring Cisco devices and managing the software. Comprehensive review of all topics covered in Cisco I and II in preparation for the CCENT certification exam. 0708.00

**3 Cisco Internetworking III (4)****(CSU)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems: Cisco Internetworking 2 or equivalent experience.*

Third in a four-course sequence that qualifies students to take the Cisco CCNA examination. Topics include: switching basics and intermediate routing; command line interface and configuration of routers and switches for wired and wireless networks; Virtual LANs (VLANs), Virtual Trunking Protocol (VTP), and Spanning Tree Protocol (STP); advanced IP addressing techniques; Variable Length Subnet Masking (VLSM); intermediate routing protocols such as RIPv2, EIGRP, and OSPF; and network security issues, troubleshooting, and management. 0708.00

**4 Cisco Internetworking IV (4)****(CSU)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems: Cisco Internetworking 3 or equivalent experience.*

Final course in a four-course sequence that qualifies students to take the Cisco CCNA examination. Topics include: network design and security policies; more advanced LAN/WAN technologies; terminology and IP addressing techniques; IPv6, NAT, PAT and DHCP; Frame relay, Cable, DSL, PPP, VPN, VOIP, and Wireless. Comprehensive review of all topics covered in Cisco I, II, III, and IV courses in preparation for the CCNA certification exam. 0708.00

**415 Cisco Internetworking V (4)****(Degree-applicable)**

Hours: 64-72 lecture

Grading: Letter grade with option for pass/no-pass grade.

*Advisory: Completion of Computer Information Systems: Cisco Internetworking 4 or current CCNA certification or equivalent experience.*

CCNP ROUTE, Implementing Cisco IP Routing. Topics include overview of converged and scalable routed internetworks. Advanced routing principles and protocols, EIGRP, OSPF in multiple areas, IS-IS, and BGP for enterprise ISP connectivity. Route optimization and routing features, manipulating routing updates; redistribution, filtering, and multicasting. Advanced IP address management: IPv4 and IPv6. Qualifies students to take the Cisco Level 5 examination, including the new CCNP Route Exam (642-902). 0708.00

**416 Cisco Internetworking VI (4)****(Degree-applicable)**

Hours: 64-72 lecture

Grading: Letter grade with option for pass/no-pass grade.

*Advisory: Completion of Computer Information Systems: Cisco Internetworking 4 or current CCNA certification or equivalent experience.*

Implementing Secure Converged Wide-Area Networks (ISCW). Topics include secure teleworker access and configuration; data over cable; DSL; Frame-mode MPLS; site-site IPsec VPN; GRE tunneling; Cisco EZVPN; authentication, authorization, accounting (AAA), device hardening; IOS firewall and threat defense features; intrusion detection systems (IDA); and intrusion prevention systems (IPS). Qualifies students to take the Cisco Level 6 examination. 0708.00

**417 Cisco Internetworking VII (4)****(Degree-applicable)**

Hours: 64-72 lecture

Grading: Letter grade with option for pass/no-pass grade.

*Advisory: Completion of Computer Information Systems: Cisco Internetworking 4 or current CCNA certification or equivalent experience.*

CCNP SWITCH, Implementing Cisco Switched Networks. Topics include use of routing and switching technologies together, virtual LANs (VLANs), inter VLAN routing, virtual transport protocol (VTP), spanning tree protocol (STP), and redundancy technologies such as HSRP and VRRP. Access control and security issues, port security, root guard, mac flooding, rogue devices, and spoofing. Implement support for wireless and voice over IP (VOIP). Qualifies students to take the Cisco Level 7 examination, including the new CCNP Switch Exam (642-813). 0708.00

**418 Cisco Internetworking VIII (4)****(Degree-applicable)**

Hours: 64-72 lecture

Grading: Letter grade with option for pass/no-pass grade.

*Advisory: Completion of Computer Information Systems: Cisco Internetworking 3 or current CCNA certification or equivalent experience.*

Remote Access; Voice and Wireless Implementation in a Network. Topics include implementing and optimizing converged networks supporting voice over IP, wireless and security applications. 0708.00

**419 Cisco Internetworking IX (4)****(Degree-applicable)**

Hours: 64-72 lecture

Grading: Letter grade with option for pass/no-pass grade.

*Advisory: Completion of Computer Information Systems: Cisco Internetworking 415 and 417, or equivalent experience.*

Monitoring and maintain complex, enterprise routed and switched IP networks. Skills include planning and execution of regular network maintenance, as well as support and troubleshooting using technology-based processes and best practices, following systematic and industry recognized approaches. Labs emphasize hands-on learning and practice to reinforce troubleshooting techniques. Prepares student for the externally administered Cisco CCNP TSHOOT 642-832 exam. 0708.10

**420 Cisco Internetworking X (4)****(Degree-applicable)**

Hours: 64-72 lecture

Grading: Letter grade with option for pass/no-pass grade.

*Advisory: Completion of Computer Information Systems: Cisco Internetworking 2, or equivalent experience.*

Cisco Health Information Networking; equips students with knowledge that can be applied toward entry-level specialist careers in healthcare information/ communication technology (ICT) and networking. 0708.00

## COMPUTER INFORMATION SYSTEMS: GAME DEVELOPMENT (CISGAME)

**401 Fundamentals of Game Development I (1.5)****(Degree-applicable)**

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems 1.*

Introduction to game development. Topics include: history, hardware, graphics, sound, game genres, design elements, game generation software, game programming, and available careers in game development. 0707.10

**402 Fundamentals of Game Development II (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems: Game Development 401.* Game development using creation software and development tools. Topics include: game design methods; content development, including graphics and sound; game logic; programming concepts such as objects, properties, methods, and events; basic concepts of movement and collision; beta testing; and identifying and fixing bugs. 0707.10

**403 Fundamentals of Game Programming (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems: Game Development 401.* Introduction to game programming using a popular computer game programming language. Fundamentals of planning, syntax, logic, testing, debugging, and documentation in the development of computer games. 0707.10

**420 Mobile/Web Game Development (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems: Game Development 401.*

Programming and design for mobile and web games. Topics include fundamentals of games and logic, game development, positioning and movement of elements, development and comparison of Web tools and mobile emulators, collision detection and reaction, graphics, sound, animations, and testing and debugging projects. 0707.10

## COMPUTER INFORMATION SYSTEMS: HARDWARE AND SUPPORT (CISHDSP)

### 401 Microcomputer Hardware (3) [Cx]

*(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems 1.*

Provides current and relevant computer technical skills required for entry level PC Technician positions and/or preparation for computer industry certification. Topics include basic analysis of microcomputers and related equipment including computer hardware installations, configuring (upgrading) computers, troubleshooting techniques and the interaction between computer hardware and software. 0708.20

### 405 A+ Certification Preparation (1.5)

*(Degree-applicable)*

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems: Hardware and Support 401.*

A practical course designed to prepare students for the A+ Certification exams. Subject matter includes computer hardware installation, configuration, diagnosing issues, operating system basics, safety, customer relations, security and basic networking. The A+ Certification exams are administered by independent testing organizations. 0708.20

## COMPUTER INFORMATION SYSTEMS: INTERNET AND WEB DEVELOPMENT (CISIWEB)

### 70 Creating Web Pages with HTML (1.5) [Cx]

*(CSU)*

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems 68.*

Creation of HTML (Hypertext Markup Language) pages for the Web, including integration of links, formatting, graphics and multimedia, and tables. Introduction to the concepts, foundations, syntax, and structure of HTML and XHTML (extensible Hypertext Markup Language). 0707.10

### 72 Web Page Development and Publishing (3)

*(CSU)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems 68.*

Basic web page development using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Topics include web site planning, responsive Web page creation, hyperlinks, formatting, graphics, multimedia, tables, scripting, dynamic page creation, and Web publishing. 0707.10

### 410 WebMaster Tools (1.5) [Cx]

*(Degree-applicable)*

Hours: 24-27 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems: Internet and Web Development 70.*

Tools used by the Webmaster to develop and administer an Intranet/Internet Web-site. Topics include advanced HTML/XHTML programming, JavaScript, Dynamic HTML, XML, Web Publishing, and the use of Cascading Style Sheets (CSS) for formatting. 0709.00

### 414 Creating Dynamic Web Content Using Javascript/AJAX (3)

*(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems: Internet and Web Development 70.*

Principles of JavaScript programming. Topics include: integrating JavaScript and HTML; creating pop-up windows; adding scrolling messages; validating forms; enhancing the use of images and form objects; working with cookies, arrays, and frames; and developing online dynamic content and client-side Web applications using Asynchronous Java and XML (AJAX). 0707.10

### 424 WordPress Web Development (1.5)

*(Degree-applicable)*

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems 68.*

Development of Websites using the WordPress Content Management System (CMS). Includes wordpress.com and wordpress.org, WordPress codex, installation, using the dashboard, navigation, themes, plugins, widgets, organizing content, multimedia, blogs, security, Search Engine Optimization (SEO), troubleshooting, modifying with HTML and CSS, and other topics. 0709.00

### 436 Web Development: PHP/MySQL (3)

*(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems: Internet and Web Development 70.*

Building Web-based applications using PHP in conjunction with MySQL to create database-driven Web sites. Topics include an introduction to PHP and syntax, configuring a Web server for use with PHP, programming in PHP using basic scripting, data types, looping, conditional constructs, functions, operators, lists and arrays, databases and data files, e-mail, forms, and cookies. 0709.00

### 438 Web Development: Ruby on Rails (1.5)

*(Degree-applicable)*

Hours: 24-27 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems: Internet and Web Development 70.*

Development and implementation of Web sites using MySQL database technology and Ruby on Rails, an open source web application framework for the Ruby programming language. Topics include Ruby basics and installation, Ruby syntax and application development, the Model-View Controller (MVC), creating dynamic Web pages with Rails, simple model validation, data validation, storage, retrieval, and application prototyping. 0709.00

### 492A-H Special Topics: CIS Internet and Web Development (.5-6)

*(Degree-applicable)*

Hours: 16-18 lecture hours per unit of credit.

Grading: Letter grade only.

Special interest lecture course for students who wish further exploration in specific areas of Internet and Web development. Topics vary and are determined by the instructor. See the schedule of classes for current term emphases. May require prerequisites and/or corequisites based upon the content of the course. 0709.00

## COMPUTER INFORMATION SYSTEMS: NETWORKING (CISNTWK)

### 11 Microsoft Network Server (3)

*(CSU)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems 50.*

In-depth study of Microsoft network server software and the administration of a network. Topics include: installation and configuration, active directory, file system management, and security. Helps prepare students for the Microsoft Certified Professional (MCP) and Microsoft Certified Systems Engineer (MCSE) exams. 0708.10

### 413 TCP/IP (1.5)

*(Degree-applicable)*

Hours: 24-27 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems 50.*

Study of Transmission Control Protocol/Internet Protocol (TCP/IP) and its implementation on various operating systems. Helps prepare students for the Microsoft Certified Professional (MCP), Microsoft Certified Systems Engineer (MCSE), and CompTIA exams. 0708.10



**440 Introduction to Network Security Administration (3)***(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems 50.*

Fundamentals of network security for the networking professional. Topics include: authentication, attack types, threats and countermeasures, intrusion detection systems, firewalls, physical security concepts, security policies, disaster recovery, and computer forensics. Helps prepare students for the CompTIA Security+ certification examination.

0708.10

## COMPUTER INFORMATION SYSTEMS: PROGRAMMING (CISPROG)

**1 Introduction to Computer Programming (3) [Cx]***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems 1.*

Introduction to the principles of computer programming. Topics include the program development life cycle, control structures, syntax and object-oriented programming development. A popular object-oriented programming language will be used.

(C-ID COMP 112)

0707.10

**3 Fundamentals of Visual Basic Programming (3)***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems 1.*

Beginning Visual Basic programming for business applications. Emphasis on problem analysis, solution planning, and object oriented programming solutions.

0707.10

**403 Advanced Visual Basic Programming (3)***(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Information Systems: Programming 3.*

Advanced Visual Basic programming for business applications. Emphasis on report generation, database interface, and project design.

0707.10

## COMPUTER SCIENCE (COMPSCI)

**1 Programming Concepts and Methodology I (3) [Cx]***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems: Programming 1*

Introduces the discipline of computer science using a high level language, utilizing programming and practical hands-on problem solving. Topics include hardware, software, computer architecture, memory and registers, input-output data operations, storage, information control, problem solving, and Object Oriented Programming. First course in a sequence of courses that is compliant with the standards of the Association for Computing Machinery (ACM).

(C-ID COMP 122)

0706.00

**2 Programming Concepts and Methodology II (3)***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Science 1.*

Application of software engineering techniques to the design and development of large programs: data abstraction and structures and associated algorithms.

(C-ID COMP 132)

0706.00

**3 Computer Architecture and Organization (3)***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Science 1.*

Organization and behavior of real computer systems at the assembly-language level. Mapping of statements and constructs in a high-level language onto sequences of machine instructions is studied, as well as the internal representation of simple data types and structures. Numerical computation is examined, noting the various data representation errors and potential procedural errors.

(C-ID COMP 142)

0706.00

**21 Fundamentals of C++ Programming (3) [Cx]***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Computer Science 1 or Computer Information Systems:**Programming 1.*

Introduction to the concepts, terminology, syntax, and uses of the C++ programming language.

0707.10

## COOPERATIVE EDUCATION (COOPED)

(WORK EXPERIENCE COURSES MAY ALSO BE FOUND WITHIN SOME DISCIPLINES.)

**497A-D Cooperative Education: General Work Experience (1, 2, 3, or 4)***(Degree-applicable)*

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience for each unit of credit.

Grading: Letter grade only.

*Limitation on Enrollment: Student must be employed or participating in an internship.*

Supervised employment which is intended to assist students in acquiring desirable work habits, attitudes and career awareness. The work experience need not be related to the students' educational goals. Career and professional development seminars include study of knowledge, judgments, skills and attitudes essential for success in the world of work.

4932.00

## CORRECTIONAL SCIENCE (CRSCI)

*While most Correctional Science courses may be challenged for Credit-by-Examination, a limitation to the number of challenges may apply. Contact the office of the Dean of Social and Behavioral Sciences for more information.*

**1 Introduction to Corrections (3) [Cx]***(CSU)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Philosophical and practical overview of the history, evolution and current practices of the field of corrections, including extensive examination of the roles and responsibilities of the three prongs of the United States criminal justice system. Critical analysis of five correctional philosophies and their impact on correctional systems, processes, case law and client's rights. Includes a critical examination of the types of correctional institutions and community-based programs, and an examination of contemporary correctional issues. Exploration of the diverse career opportunities available at the city, county, state, and federal levels.

(C-ID AJ 200)

2105.10

**2 Control and Supervision of Inmates (3) [Cx]***(CSU)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Correctional Science 1.*

Inmate supervision in correctional institutions, including security procedures, contraband control, treatment programs, and prison dynamics. Prison staff responsibilities and the effect of their application on inmate culture and institution characteristics. Current and historical methods of controlling inmates.

2105.10

**3 Correctional Law (3) [Cx]**  
**(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Correctional Science 1.*

Legal aspects of corrections from conviction/commitment to release. Discussion of laws addressing processes of the correctional system and facilities, including county jails, juvenile halls, state prisons, probation, parole, executions, clemency, commutations, and terms of imprisonment. Policy, procedure, and regulations governing escapes, treatment, and prison records. Survey of correctional programs at the various levels of government from a legal perspective. Legal and due process rights of offenders. The balance of protecting the rights of offenders individuals versus the need to protect society. 2105.10

**4 Public Relations and Corrections (3) [Cx]**  
**(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Various aspects of public relations and methods of communication with the public concerning correctional goals and concepts. Survey of problems and methods of improving attitudes toward correctional programs. Relations with criminal justice agencies including law enforcement and other government organizations, prison-prevention groups, and job-placement services. Designed for both pre-service and in-service personnel. 2105.10

**5 Crime and Delinquency (3)**  
**(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Correctional Science 1.*

An analysis of the causation theories attributed to crime, delinquency and deviance, and the implications for the offender, the victim and the justice system. An examination of the history and progression of our country's attempts to control its crime problem. Classification of crimes, criminals and statutory laws are explored. 2105.10

**6 Correctional Interviewing and Counseling (3) [Cx]**  
**(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Powerful and appropriate interviewing and counseling techniques for use with correctional clients, who may include perpetrators, victims, family members, and witnesses. Strategies for dealing with sidetracking, aversion, and defensive responses. Effective use of encouragement, silence, redirection, non-verbal communication, and rapport in interviews. Intervention, counseling, and appropriate referrals in crisis situations. Ethics, boundary, and confidentiality issues encountered by counselors and caseworkers. 2105.10

**7 Probation and Parole (3) [Cx]**  
**(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Correctional Science 1.*

Overview of the history and philosophical foundations of probation and parole in the United States. Organization and operations of probation and parole agencies as particular segments of the criminal justice system. Probation as part of the judicial process, and parole as part of the corrections system. Theoretical concerns exemplified in probation and parole supervision, as well as the practical aspects of probation and parole services. Review and evaluation of community-based corrections and the programs included in response to criminal behavior. Issues and problems relating to the pre-sentence investigation report, determinate versus indeterminate sentencing, the vast and diverse roles of the probation officer and parole agent, and case law decisions affecting probation and parole practice. 2105.20

**8 Ethnic Group Relations (3)**  
**(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of minority roles, problems, and relationships within the criminal justice system. Explanation of the impact and effect of stereotypes and prejudice within the system and how it affects its decision-makers. Examination of our society's stratification and perspectives based on race, ethnicity, class, and gender as they relate to crime and justice in America. Identification of cultural traditions that may affect the rehabilitation process of the correctional client. 2105.10

**10 Violence in America (3)**  
**(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

An exploration of victimization theories, classification of violent crimes, and perpetrator identification. Crime and its impact on victims and society as a whole. Primary, secondary and tertiary victimization, intimate violence, workplace violence, school violence and terrorism are explored. 2105.10

**409 Women and the Criminal Justice System (3)**  
**(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

A historical study of women involved in the criminal justice system as victims, offenders, and criminal justice professionals. Causative factors for women's increased propensity for crime are reviewed, as well as the female professionals' rise to prominence and effectiveness in a male-dominated career. 2105.10

**410 Street Gangs and Subcultures (3)**  
**(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Introductory course exploring the history and development of gangs, current gang activity, and trends affecting the evolution of established gangs and the development of future gangs. Efforts by police, probation, and parole agencies in the prevention, intervention, and suppression of gangs. Motivational theories on why young people join gangs and the relationship between street and prison gangs. 2105.10

**411 Juvenile Corrections (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Impact of juvenile delinquency on offenders, family, community and society. Responsibilities of the various components of the juvenile justice system involved in arrest, investigation, reporting, court procedures, probation, detention, and residential treatment of juvenile offenders. Programs and policies of the Juvenile Justice Division of the California Department of Corrections and Rehabilitation. 2105.10

**450 Correctional Report Writing (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Essential elements of report writing. Emphasis on correct sentence structure, grammar, technical writing style, and accuracy in reporting the facts relating to a crime, behavioral incident, institutional board report, annual review, discharge, pre-sentence investigation, violation of conditions, and case summary review. Actual reports are examined and analyzed to help demonstrate relevance and purpose of this correctional process. 2105.10

**501 Preparation for Correctional Peace Officer Examination Process (2)****(Non-degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Student must be 18 years of age or older.*

Course is designed to provide a competitive edge to students planning to enter the field of corrections as a probation officer, counselor, custody assistant, corrections officer, or parole agent. Topics include job search strategies, application processing, testing techniques, background checks, and effective interview tactics. 2105.10

**DANCE (DANCE)****1 Survey of Dance (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or ESL-475.*

A conceptual and historical study of dance from antiquity to the present, emphasizing the cultural and historical development of dance as a theatrical and social form. This non-studio course includes lectures, readings, and films. 1008.00

**2 Theatrical Dance (3)***(Also available as Theatre 2)***(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study of physical movement as it relates to the body on the stage, including movements commonly used in musical theatre, jazz, and modern dance techniques. This course is for the theatre and/or dance major, or any performer or student interested in developing awareness and understanding importance of control, coordination, balance, strength, and conscious development of movement habits. 1008.00

**4A Ballet IA (1.5)****(CSU; UC)**

Hours: 72-81 studio.

Grading: Letter grade only.

Skill acquisition and practice of fundamental classical ballet barré and center technique at the beginning level. Study of ballet theory, history, and vocabulary. 1008.00

**4B Ballet IB (1.5)****(CSU; UC)**

Hours: 72-81 studio.

Grading: Letter grade only.

*Advisory: Completion of Dance 4A.*

Skill improvement in fundamental classical ballet barré and center technique at the advanced beginning level. Continued study of ballet theory, history, and vocabulary. 1008.00

**6A Ballet IIA (1.5)****(CSU; UC)**

Hours: 72-81 studio.

Grading: Letter grade only.

*Advisory: Completion of Dance 4B.*

Skill improvement and added complexity in classical ballet barré and center technique. Development and practice of intermediate skill level combinations with modifications and complications. Continued study of ballet theory, history, and vocabulary. 1008.00

**6B Ballet IIB (1.5)****(CSU; UC)**

Hours: 72-81 studio.

Grading: Letter grade only.

*Advisory: Completion of Dance 6A.*

Skill improvement in increasingly complex classical ballet barré and center technique. Further development and practice of intermediate/advanced skill level combinations with modifications and complications. Continued study of theory, history, and vocabulary. 1008.00

**7A Ballet IA (1)***(replaces Dance 4A)***(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

Skill acquisition and practice of fundamental classical ballet barré and center technique at the beginning level. Study of ballet theory, history, and vocabulary. 1008.00

**7B Ballet IB (1)***(replaces Dance 4B)***(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 7A.*

Skill improvement in fundamental classical ballet barré and center technique at the advanced beginning level. Continued study of ballet theory, history, and vocabulary. 1008.00

**8A Ballet IIA (1)***(replaces Dance 6A)***(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 7B.*

Skill improvement and added complexity in classical ballet barré and center technique. Development and practice of intermediate skill level combinations with modifications and complications. Continued study of ballet theory, history, and vocabulary. 1008.00

**8B Ballet IIB (1)***(replaces Dance 6B)***(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Advisory: Completion of Dance 8A.*

Skill improvement in increasingly complex classical ballet barré and center technique. Further development and practice of intermediate/advanced skill level combinations with modifications and complications. Continued study of theory, history, and vocabulary. 1008.00

**10A Jazz Dance IA (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

Introduction of basic jazz dance skills and vocabulary emphasizing technique and style through warm-ups; center-floor strength, flexibility, body control techniques; and travelling techniques progressing to choreographed combinations. 1008.00

**10B Jazz Dance IB (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 10A.*

Further development of jazz dance skills and vocabulary at the advanced beginning level emphasizing technique and style, and adding more complexity to warm-ups; center-floor strength, flexibility, body control techniques; travelling techniques; and choreographed combinations. 1008.00

**20A Modern Dance IA (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

Introduction of basic modern dance skills and vocabulary emphasizing technique and creativity, and drawing upon fundamental classical modern styles, as well as post-modern and contemporary styles. Introduction of modern dance theory, history and criticism. Application of skills through warm-ups; center-floor strength, flexibility, body control techniques; and traveling techniques progressing to choreographed combinations. 1008.00

**20B Modern Dance IB (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 20A.*

Further development of modern dance skills and vocabulary at the advanced beginning level emphasizing technique and creativity, and drawing upon classical, post-modern, and contemporary styles. Further analysis of modern dance theory, history and criticism, and application of skills through more complex, enhanced warm-ups; center-floor strength, flexibility, body control techniques; traveling techniques and choreographed combinations.

**30A Tap Dance IA (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

Introduction of basic tap dance skills and vocabulary, emphasizing technique, styles, and rhythms through warm-ups, travelling techniques, and choreographed combinations. 1008.00

**30B Tap Dance IB (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 30A.*

Further development of tap dance skills and vocabulary at the advanced beginning level, emphasizing technique, styles, and rhythms adding more complexity to warm-ups, travelling techniques, and choreographed combinations. 1008.00

**40A Modern Dance IIA (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 20B.*

Intermediate-level modern dance skills and vocabulary with additional development and complexity emphasizing expanded technical and artistic range and expression, and drawing upon classical, post-modern, and contemporary styles. In-depth analysis of modern dance theory, history, and criticism. Continued refinement of skills through more complex warm-ups; center-floor strength, flexibility, body control techniques; traveling techniques; and lengthier choreographed combinations.

1008.00

**40B Modern Dance IIB (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 40A.*

Advanced-level modern dance skills and vocabulary emphasizing technical mastery and deep artistic range and expression, and drawing upon classical, post-modern, and contemporary styles. In-depth analysis and synthesis of modern dance theory, history, and criticism. Mastery of skills and professionalism through complex, stylized warm-ups; center-floor strength, flexibility, body control techniques; traveling techniques; improvisation; and lengthy choreographed combinations.

1008.00

**42 Dance Production I (3)****(CSU; UC)**

Hours: 144-162 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Audition to determine technical proficiency in various dance styles.*

Course provides theatrical dance experience in a fully produced dance concert production. Students gain knowledge of all aspects of the choreographic and rehearsal process culminating in dance performance of faculty and advanced student dance works in ensemble roles.

1008.00

**44 Dance Production II (3)****(CSU; UC)**

Hours: 144-162 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Audition to determine technical proficiency in various dance styles.**Advisory: Completion of Dance 42.*

Course provides continued theatrical dance performing experience in a fully-produced dance concert production. Intermediate/advanced-level performance skills emphasizing technical mastery and deep artistic range and expression. Students will perform more complex choreography, multiple roles, and principal roles including solo, demi solo and small group, as well as ensemble roles in faculty, guest professional, and advanced student dance works.

1008.00

**50A Jazz Dance IIA (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 10B.*

Further development of jazz dance skills and vocabulary at the intermediate level, emphasizing technique and style. Increasing technical and artistic range through more complex warm-ups; center-floor strength, flexibility, and body techniques; travelling techniques; and choreographed combinations.

1008.00

**50B Jazz Dance IIB (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 50A.*

Further development of jazz dance skills and vocabulary at the advanced level, emphasizing technique and style. Increasing technical and artistic range through more complex warm-ups; center-floor strength, flexibility, and body techniques; travelling techniques; and choreographed combinations.

1008.00

**60A Tap Dance IIA (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 30B.*

Further development of tap dance skills and vocabulary at the intermediate level, emphasizing technique, styles, and rhythms. Increasing technical and artistic range through more complex warm-ups, travelling techniques, and choreographed combinations.

1008.00

**60B Tap Dance IIB (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Level placement pending instructor approval.**Advisory: Completion of Dance 60A.*

Further development of tap dance skills and vocabulary at the advanced level emphasizing technique, styles, and rhythms. Increasing technical and artistic range through more complex warm-ups, travelling techniques, and choreographed combinations.

1008.00

**400 Hip Hop Dance (1)****(Degree-applicable)**

Hours: 48-54 studio.

Grading: Letter grade only.

Basic techniques and styles of Hip Hop dance – both historical and current - emphasizing musicality, rhythms, basic and complex movements required to develop performance and choreographic skills. Critical viewing and analysis of Hip Hop dance choreography.

1008.00

**420 Social Dance (1)****(Degree-applicable)**

Hours: 48-54 studio.

Grading: Letter grade only.

Basic technique and styles of American and Latin ballroom dance including salsa, tango, rumba, merengue, cha-cha, swing, waltz, and foxtrot with emphasis on partnering techniques, footwork, rhythms and musicality, and performance presentation.

1008.00

**DENTAL ASSISTING (DENTAL)*****Student must furnish their own uniform and pay for a physical examination.*****400 Dental Assisting Core Sciences (6) [Cx]****(Degree-applicable)**

Hours: 64-72 lecture; 96-108 laboratory.

Grading: Letter grade only.

Core competencies and foundational skills. Topics include an overview of applicable biomedical terms and functions, dental anatomy, infection prevention and control, medical and dental emergencies, ethics and professionalism, patient interaction, dental charting, community health and diversity, and basic laboratory skills.

1240.10

**410 Dental Assisting Preclinical Sciences (6) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture; 144-162 laboratory.

Grading: Letter grade only.

*Prerequisite: Dental Assisting 400.*

Study and application of dental processes, performed in a preclinical site. Students engage in an in-depth study of dental materials, instrumentation, procedures, protocols, and become familiar with the various dental specialties.

1240.10

**420 Radiography for Dental Assistants (6) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture; 144-162 laboratory.

Grading: Letter grade only.

*Prerequisite: Dental Assisting 400.*

In-depth study of dental radiography. Topics include evolution of standard and digital radiography; basic principles, characteristics and terminology; oral physics and biological effects; sterilization and infection control; film types and exposures; safety procedures in the use and maintenance of equipment; placement and processing techniques; film mounting; error identification and correction; and the use of radiographs in diagnoses and treatment planning. Evaluation and documenting of pathological intraoral findings during mouth inspections are also covered. Students master skills in pre-clinical and clinical assignments.

1240.10



**430 Clinical Practice (6) [Cx]****(Degree-applicable)**

Hours: 288-324 laboratory.

Grading: Letter grade only.

*Prerequisite: Dental Assisting 410.**Advisory: Completion of Dental Assisting 420.*

Students are assigned to extramural (off-site) clinical facilities, which include general and specialty dental practices. Experiential objectives are the application of four-handed dentistry concepts, auxiliary utilization, direct patient care, and dental office procedures. Student participation in community and professional development activities that occur within the term is a required part of the course. 1240.10

**DISABILITY PROGRAMS AND SERVICES (DPS)**

For all DPS courses: Students with specific disabilities and educational limitations should have a physician's recommendation/release for class activities. This provides the instructor with information necessary to tailor a program to the needs and capabilities of the individual student.

For DPS-657: Student must be identified under Title V regulations as a student with a verifiable disability. Student should have the willingness to work in large and small groups, individualized and/or laboratory settings, and the desire to develop vocational work skills, reading, and money handling as related to a vocation and independent living. Student must not be injurious to self or others.

**523 Beginning Job Readiness Skills (1.5)****(Non-degree-applicable)**

Hours: 72-81 open-entry laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Orientation and instructor signature is required for registration.**Corequisite: Disability Programs and Services 576.*

First in a series of open-entry/exit self-paced courses for students with disabilities. This course introduces the basic job readiness skills which prepare students for competitive employment. 4930.30

**524 Intermediate Job Readiness Skills (1.5)****(Non-degree-applicable)**

Hours: 72-81 open-entry laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Orientation and instructor signature is required for registration.**Corequisite: Disability Programs and Services 577.*

Second course in a series of open-entry/open-exit self-paced courses for students with disabilities. This course focuses on intermediate job readiness skills to further prepare students for competitive employment. 4930.30

**525 Advanced Job Readiness Skills (1.5)****(Non-degree-applicable)**

Hours: 72-81 open-entry laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Orientation and instructor signature is required for registration.**Corequisite: Disability Programs and Services 578.*

Third course in a series of open-entry/open-exit self-paced courses for students with disabilities. This course focuses on the advanced job readiness skills needed for competitive employment. 4930.30

**526 Mastery of Job Readiness Skills (1.5)****(Non-degree-applicable)**

Hours: 72-81 open-entry laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Orientation and instructor signature is required for registration.**Corequisite: Disability Programs and Services 579.*

Final course in a series of open-entry/open-exit self-paced courses for students with disabilities. This course focuses on job placement skills for obtaining competitive employment. 4930.30

**530 Basic Computer Skills for Students with Disabilities (1)****(Non-degree-applicable)**

Hours: 8-9 lecture; 24-27 laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Instructor consent is required for registration.*

Individualized prescriptive course providing students with disabilities the knowledge of computer software, hardware and assistive devices needed to promote individual success and independence. Students create effective documents, utilize adaptive software and hardware, and develop transferable skills for use in college instructional courses and/or the work force. 4930.30

**575 Problem Solving for Job Readiness (1)****(Non-degree-applicable)**

Hours: 48-54 self-paced laboratory.

Grading: Pass/No Pass grade only.

Open-entry/open-exit, self-paced laboratory course for job training and independent living. Students apply basic skills of reading, writing, and mathematical concepts to interpret and respond to specific vocational and/or practical living situations. Hands-on learning experiences aid in the development of appropriate work behaviors, social skills, and entry-level job skills. 4930.30

**576 Beginning Job Skills Practicum Lab (1.5)****(Non-degree-applicable)**

Hours: 72-81 open-entry laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Orientation and instructor signature is required for registration.**Corequisite: Disability Programs and Services 523.*

Open-entry/exit self-paced course for students with disabilities, focused on the introduction of basic hands-on job skills to prepare students for competitive employment. 4930.30

**577 Intermediate Job Skills Practicum Lab (1.5)****(Non-degree-applicable)**

Hours: 72-81 open-entry laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Orientation and instructor signature is required for registration.**Corequisite: Disability Programs and Services 524.*

Open-entry/exit self-paced course for students with disabilities, focused on intermediate hands-on job skills to further prepare students for competitive employment. 4930.30

**578 Advanced Job Skills Practicum Lab (1.5)****(Non-degree-applicable)**

Hours: 72-81 open-entry laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Orientation and instructor signature is required for registration.**Corequisite: Disability Programs and Services 525.*

Open-entry/exit self-paced course for students with disabilities, focused on advanced hands-on job skills needed for competitive employment. 4930.30

**579 Mastery of Job Skills Practicum Lab (1.5)****(Non-degree-applicable)**

Hours: 72-81 open-entry laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Orientation and instructor signature is required for registration.**Corequisite: Disability Programs and Services 526.*

Open-entry/exit self-paced course for students with disabilities, focused on hands-on job skills needed for obtaining job placement in competitive employment.

**651 Job Placement Practicum for Students with Disabilities (0)****(Non-credit)**

Hours: 24-27 open-entry laboratory

Grading: Not graded.

Self-paced, open-entry/open-exit course offering individualized and/or group instruction in job development, job search techniques, job holding skills, and the utilization of community rehabilitation resources for students with developmental, learning, and/or physical disabilities. Work experience, supported employment, and/or job placement and follow-up services are provided as a practicum for applying learned skills in a real work environment. May be repeated. 4930.30

**657 Vocational Skills for Students with Disabilities (0)****(Non-credit)**

Hours: 48-54 open-entry laboratory.

Grading: Not graded.

Self-paced, open-entry/open-exit course for students with disabilities teaching work skills that increase their earning potential and level of independence. Students learn skills necessary to progress in vocational and independent living environments to achieve their vocational goals. In order to insure equal access, classes are held in the community, providing underrepresented students the opportunity for quality educational programming. Students learn the basic academics that support vocational development and increase their level of independence. Curriculum may include entry-level work skills, job retention skills, and interpersonal skill development. May be repeated. 4930.31

**DRAFTING (DRAFT)****20 Computer-Aided Drafting and Design (4) [Cx]****(CSU)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Computer Information Systems 4 or Windows experience.* Introduction to Computer Aided Drafting and Design (CADD) technology, terminology, and application, using an industry-standard program. Topics include drawing creation, detailing and dimensioning, management of drawing files, management of the user environment, producing hardcopy output of drawings, and introduction to parametric sketching. Emphasis on two-dimensional working drawings. 0953.00

**21 Mechanical Design I (3) [Cx]****(CSU)**

Hours: 16-18 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Drafting 20 or one year of high school drafting using AutoCAD, and Engineering Technology 10 or one year of high school drafting using SolidWorks or a similar feature-based modeling software.*

Production of engineering drawings using primary orthographic views, section views, detail views and auxiliary views. Detailing of drawing views including dimension, notes/labels and drawing formats. Assignments are completed on the CAD system. 0953.40

**41 Computer-Aided Drafting and Design: Mechanical (4)****(CSU)**

Hours: 32-36 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Engineering Technology 10.**Advisory: Completion of Drafting 21.*

Advanced drawing techniques using the computer, with focus on mechanical applications. Advanced documentation/design practices including ASME Y14.5 form and positional tolerancing, tolerance stacking/analysis and Six Sigma tolerancing practices. Additional topics include the creation of symbol libraries, bills of material, customizing menus, and other forms of interface automation. Coursework will be completed using the SolidWorks software. 0953.40

**43 Advanced CAD Modeling and Applications (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Engineering Technology 10.*

Advanced concepts and development of three-dimensional visualization skills. Techniques for part and assembly modeling using a feature-based parametric CAD solid modeler. Technique for producing industry standard orthographic projection drawings from three-dimensional solid models. 0953.00

**50 Architectural Design I (3) [Cx]****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

*Prerequisite: Drafting 20 or one year of high school drafting.*

Theory and methods of architectural drawings, incorporating the fundamentals of good residential design. Topics include: line conventions, projection representation, dimensions, layout and traffic pattern accommodation, and the impact of building codes and UBC and FHA regulations. Student drawings will reflect the integration of topics concepts and the various plans needed for a complete set of working drawings, including a plot plan, foundation plan, floor plan, sections, details, and stairs. Coursework will be completed using AutoCAD and REVIT software. 0953.10

**51 Architectural Design II (3) [Cx]****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Drafting 50.*

Design issues associated with more complex buildings and settings, including the impact of zoning, local codes, and challenging sites. Topics include: multiple story structures, split levels, complicated roof and foundation design, exterior embellishments, Title 24 and AHDA compliance issues, heat loss and gain, energy costs calculation, and environmental impact. Students' projects include presentation elevation perspectives and model construction for design study, presentation, and promotion. Coursework will be completed using the REVIT software. 0953.10

**53 Architectural Applications of CAD (4)****(CSU)**

Hours: 32-36 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Drafting 51.*

In-depth use of parametric three-dimensional for Building Information Modeling (BIM), building design and production of working drawings using Revit Architecture software. This will build upon the skills developed in Drafting 51 and will include creating and modifying three-dimensional topography and building mass objects, parametric building walls with floor and roof slabs, creating floor reflected ceiling plans, generating building elevations and sections, and creating professional quality renderings. Hands-on exercises will be used to reinforce the functions of Revit. 0953.10

**78 Advanced Design Applications (4) [Cx]****(CSU)**

Hours: 32-36 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Engineering Technology 10, or 1 year experience using SolidWorks or a similar feature-based modeling software.*

Advanced modeling/drawing of machine parts in the various stages of manufacturing with required back-up items such as jigs, fixtures, weldments, tooling, molds, and dies. Assignments may be done using a CAD system. 0953.00

**92A-H Special Topics: Drafting (.5-6)****(CSU)**

Hours: 16-18 lecture hours per unit of credit.

Grading: Letter grade only.

Selected topics for students who wish to gain in-depth knowledge in specific areas of drafting. Topics will be determined after consultation with an instructor. 0953.00

**92LA-H Special Topics Laboratory: Drafting (.5-6)****(CSU)**

Hours: 48-54 laboratory hours per unit of credit.

Grading: Letter grade only.

Selected laboratory topics for students who wish to gain in-depth knowledge in specific areas of drafting. Topics will be determined after consultation with an instructor. 0953.00

**98A,B,C Independent Study: Drafting (1, 2, 3)****(CSU credit limitations)**

Grading: Letter grade only.

*Limitation on Enrollment: Instructor signature is required for registration.*

Special project course designed for the capable, well-motivated student. Each student explores and develops a project or a paper in an area of personal interest. Nature and extent of the project must be decided by student and instructor before the student may sign up for the course. Type and extent of the project determines the number of units allowed. 0953.00

**452 Light Commercial Construction Design (3)****(Degree-applicable)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Drafting 51.*

Design and detailing of small business and manufacturing buildings. Emphasis on building codes, materials, layout, and functional equipment. Particular attention will be paid to environmental design. 0953.10

**DRAMA**

(SEE THEATRE ARTS)

## EARTH SCIENCE (ESCI)

(SEE ALSO GEOLOGY)

### 1 Earth Science (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Geology, oceanography, meteorology, and planetology aspects of the physical environment. Designed for general education and earth science majors.

(C-ID GEOL 120) 1930.00

### 1L Earth Science Laboratory (1)

(CSU; UC)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Corequisite:* Earth Science 1 (may be taken previously).

Optional laboratory for Earth Science. Use of scientific tools and methods to image, measure and observe phenomenon in geology, oceanography, astronomy and meteorology.

(C-ID GEOL 120L) 1930.00

### 5 Oceanography (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to the marine sciences. Properties of water, air-sea interaction, ocean currents, waves, tides, beaches, marine life, marine resources, ocean pollution, and the nature and origin of the sea floor.

1919.00

### 5L Oceanography Laboratory (1)

(CSU; UC)

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Corequisite:* Earth Science 5 (may be taken previously).

Use of the tools and methods of science to image, measure and observe phenomenon in oceanography.

1919.00

## ECONOMICS (ECON)

### 1 Introduction to Economics (3) [Cx]

(CSU; UC credit limitations)

Hours: 48-54 lecture.

Grading: Letter grade only.

Provide an overview of basic economic theories and models and apply them to analyze contemporary economic issues. Topics include the U.S. economic system, domestic and international economic issues, e.g. wealth and income distribution, sustainable economic growth, health and health care reform, unemployment, globalization, environmental issues, regulation, deregulation, inflation, interest rates, discrimination, corporations and labor unions and contemporary labor issues. May be offered as an Honors course.

2204.00

### 2 Principles of Macroeconomics (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite:* Eligibility for Mathematics 425 as determined by the Chaffey assessment process, or completion of Mathematics 410.

*Advisory:* Completion of Mathematics 425.

Introductory course focusing on aggregate economic analysis. Topics include market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics, and economic growth. U.S. economic system and institutions and their origins are examined including theories and policies concerning economic growth and development, business cycles, unemployment, full employment, inflation, taxation, deficits, the national debt, public choice, money, banking, interest rates, international trade and finance, and competing economic views (e.g. Classical, New Classical, Keynesian, Monetarism, Sustainable Growth Theories, and Human Scale Economics). May be offered as an Honors course.

(C-ID ECON 202) 2204.00

### 4 Principles of Microeconomics (3) [Cx]

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite:* Eligibility for Mathematics 425 as determined by the Chaffey assessment process, or completion of Mathematics 410.

*Advisory:* Completion of Mathematics 425.

Introductory course focusing on choices of individual economic decision-makers. Topics include scarcity; individual and household decision making; business decision making; specialization and trade; market equilibrium; elasticity; production and cost theory; market structures; factor markets; effects of taxes on individuals and businesses; income distribution and poverty; economics of race, gender, and culture; and market failure. May be offered as an Honors course.

(C-ID ECON 201) 2204.00

### 7 Economic History of the United States (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of events in the U.S. from the middle of the 17th Century to the present. The class uses economic analysis to examine the social, political and economic events from the Colonial Period to the present. Topics include the evolution of the banking systems and financial services, manufacturing and tariffs, land and resource use, labor issues, government regulation and deregulation, slavery, the rise of big business, international trade, income and wealth distribution, business cycles, monetary and fiscal policy, and U.S. interaction with the global economy.

2204.00

### 8 History of Economic Ideas (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory:* Completion of English 1A.

Historical development of the institutions and ideas related to our present economic system emphasizing the writings of the "great economists", including Smith, Ricardo, Marx, Marshall, Hayek, Robinson, Keynes, and Schumpeter. Students will critically examine a variety of schools of thought with the objective of improving their ability to think clearly and logically.

2204.00

### 90A Economics Honors Seminar (1)

(CSU; UC credit limitations)

Hours: 16-18 lecture.

Grading: Letter grade only.

*Limitation on Enrollment:* Students must be concurrently enrolled in one of the corequisite courses or have completed one of the corequisite courses with an A or B grade in the immediately preceding term, and must also meet Honor's eligibility criteria delineated in the schedule of classes.

*Corequisite:* Economics 1, 2, 4, or 8 (may have been taken previously)

Honors component for Economics 1, 2, 4, and 8. Topics of interest vary, are chosen by the instructor and students, and are presented in a seminar format with change in topic emphasis each term.

2204.00

## EDUCATION (ED)

### 10 Elementary Classroom Fieldwork (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment:* Proof of a negative TB test within past 12 months and legal fingerprint clearance through Chaffey College Human Resources Department are required for fieldwork placement.

*Prerequisite:* Education 400, and eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.

Course explores concepts and issues related to teaching diverse learners in today's schools, Kindergarten through grade twelve (K-12). Topics include teaching as a profession, historical and philosophical foundations of the United States education system, contemporary educational issues, and California's standards for both student curriculum and teacher performance. In addition to a weekly lecture, the course requires 45 hours of structured fieldwork with a certificated teacher in a diverse public elementary classroom. Fieldwork placement will be carefully selected by the course instructor at schools within the district boundaries of the Chaffey College Rancho campus.

(C-ID EDUC 200) 0801.00

### 400 Introduction to Education and Teaching I (3) [Cx]

(Degree-applicable)

Hours: 48-54 lecture.

Grading: Letter grade only.

Advisory: Completion of English 475 or English as a Second Language 475.

Introduction to careers in education, exploring professional responsibilities, career pathways, and job search strategies for tutors, para-educators, activity supervisors, and credentialed teachers. Entry-level training in classroom student diversity, child guidance and discipline, teaching and learning strategies, and effective communication skills.

0802.00

### 492A-H Special Topics: Education (.5-6)

(Degree-applicable)

Hours: 16-18 lecture hours per unit of credit.

Grading: Letter grade only.

Selected special lecture topics in the field of education, designed to augment the program curriculum or serve as useful preparation for students within the discipline. Topics vary and are determined by the instructor. Prerequisites and/or corequisites may be required, based on the scope and content of individual offerings. See the schedule of classes for current term emphases.

0801.00

## ELECTRICITY

(SEE INDUSTRIAL ELECTRICAL TECHNOLOGY)

## EMERGENCY MEDICAL TECHNICIAN (EMT)

### 405 Emergency Medical Responder (3)

(Degree-applicable)

Hours: 40-45 lecture; 24-27 laboratory

Grading: Letter grade only.

Limitation on Enrollment: Student must be 18 years or older at the start of the course.

Advisory: Students should possess good dexterity and physical condition, have the ability to lift and carry up to 150 pounds, and be able to work in confined spaces and different positions (e.g. on the ground or floor).

Emergency Responder and CPR training for the professional rescuer, fulfilling California Code of Regulations Title 22 requirements. Emergency care knowledge and skills required for Emergency Medical Technicians, Professional and Volunteer Firefighters, and Peace Officers. Course meets the American Heart Association CPR prerequisite and recommended preparation for admission to the EMT program, and is approved by the Inland County Emergency Medical Agency (ICEMA).

1250.00

### 411 Emergency Medical Technician (7) [Cx]

(Replaces Emergency Medical Technician 410)

(Degree-applicable)

Hours: 80-90 lecture; 96-108 laboratory

Grading: Letter grade only.

Limitations on Enrollment: Student must be 18 years or older at the start of the course and possess a current American Heart Association Health Care Provider CPR card.

Prerequisite: Emergency Medical Technician 405.

Advisory: Students should possess good dexterity and have good physical condition with the ability to lift 150 pounds, and work in confined areas and in different positions (i.e. on the ground or floor).

Students develop basic rescue skills needed for assessment, immediate treatment, and transport of urgently ill or injured clients, by identifying and addressing traumatic injuries, medical emergencies, and environmental hazards using rescue techniques and equipment. Emphasis on accurate evaluation and treatment of life-threatening conditions and development of appropriate client care strategies. This course prepares the student for National Registry and the Inland Counties Emergency Medical Agency (ICEMA) requirements and certifying exam. Twelve hours of an ambulance ride-along and twelve hours of observation in a hospital emergency room are required components of the course.

1250.00

## ENGINEERING (ENGIN)

### 11 Introduction to Engineering (2)

(CSU; UC)

Hours: 32-36 lecture

Grading: Letter grade only.

Introduction to the engineering profession. Exploration of the educational requirements for engineers and engineering programs available at four-year schools. Students examine the various engineering fields, along with the design standards, creativity, and professional ethics unique to the profession. Guest speakers and industry exposure provide first-hand accounts of the profession's scope and responsibilities.

0901.00

### 26 Engineering Graphics and CAD (3)

(CSU; UC)

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

Principles of orthographic projection, pictorial views, sections and auxiliary views, dimensioning, and the four fundamental views of description geometry. Emphasis on graphic communication used for manufacturing, construction, and product design for parts and assemblies. The use of CAD is incorporated to assist in the solving of industry-related problems.

0953.00

### 30 Engineering Application of Digital Computation (3)

(CSU; UC)

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

Prerequisite: Mathematics 65A.

Structured programming concepts applied to engineering problem types, such as center of mass, ballistics, column buckling, design, and reduction of experimental data. Structured approach used, with applications to flow charts and computer programming. Mathematical techniques include iterative solution, bisection, Raphson-Newton, statistics, and matrix operations. Computer techniques include formatted input and output, selection, loops, functions, pointers, arrays, and characters.

0901.00

### 50 Engineering Statics (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Prerequisite: Physics 45 and Mathematics 65A.

Vector treatment of statics of Particles and Rigid Bodies. Free body diagrams application to problems of Equilibrium (two and three dimensions) with systems of forces in trusses, frames and machines. Principles of Friction, Distributed Forces, Centroid and Centers of Gravity, Moments of Inertia for area and mass, and Shear and Bending Moment.

0901.00

### 52 Engineering Dynamics (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Prerequisite: Engineering 50 and Mathematics 65B.

Kinematics and kinetics of particles, systems of particles, and rigid bodies from a Newtonian viewpoint. Force-acceleration, work-energy, and impulse-momentum principles. Planar kinematics and kinetics of rigid bodies. Introduction to mechanical vibration. Vector mathematics where appropriate.

0901.00

### 60 Materials of Engineering (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Prerequisite: Chemistry 24A.

Properties of materials as they relate to atomic and crystal structure. Topics include atomic structure and bonding; crystalline structures; phases and phase diagrams; metals, polymers, ceramics, and composites; mechanical deformation and fracture; electrical, magnetic, and optical properties; corrosion; and process methods.

0901.00



**71 Circuit Analysis (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Physics 46 and Mathematics 65B.*

Modeling and analysis of electrical networks. Basic network theorems. Sinusoidal steady state and transient analysis of RLC network. Response as a function of frequency. Current, voltage, and power relationships. Laboratory investigation of Ohm's Law; voltage and current division; mesh and nodal analysis; Thevenin and Norton equivalents; superposition; simple PL, RC, and RLC circuits; and phasers. Use of voltmeters, ammeters, ohmmeters and oscilloscopes. 0901.00

**ENGINEERING TECHNOLOGY (EGTECH)****10 Introduction to Engineering Design (4) [Cx]****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Survey of the design process as applied to engineering and related fields, with emphasis on 3-D computer modeling software used in industry. Additional topics include design sketching, visualization, geometric relationships, assembly modeling, and model documentation. 0924.00

**12 Principles of Engineering (4) [Cx]****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Mathematics 425.*

Exploration of technology systems and engineering processes that demonstrate the benefits of math, science, and technology. Topics include the design process, communication and documentation, engineering systems, statics, properties of materials, quality assurance, materials testing, and engineering for reliability. 0924.00

**14 Electronics for Engineering Technologists I (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Mathematics 425.**Advisory: Completion of Engineering Technology 12*

Introduction to the application of electronics in engineering technology. Course covers DC circuit theory, including system of units, resistive circuits, inductors, capacitors, impedance, and Ohm's Law. Emphasis is on the application of Kirchhoff's Laws and Thevenin's and Norton's Theorems to DC circuits, Mesh and Nodal analysis, RL and RC transients, and Maximum Power Transfer. 0924.00

**16 Computer Integrated Manufacturing – CNC Material Removal (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Engineering Technology 10, or Drafting 43, or one year of high school CAD/Engineering courses using feature-based modeling software such as AutoDesk Inventor or Solidworks, or demonstrated performance with feature-based modeling software.*

An overview of automated manufacturing concepts using designs created with industry standard modeling software, material removal manufacturing processes, machine tool operations, industrial practices, tool motion, CNC programming, simulations, and prototyping. Physical examples of designs using computer-based numerically controlled (CNC) machine tools are produced. 0924.00

**ENGLISH (ENGL)****1A Composition (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Careful study and practice of expository and argumentative writing techniques and the frequent writing of compositions with the ultimate goal of a research project. A minimum of 6,000 written words is expected over the course of the term. Three hours of supplemental learning in a Success Center that supports this course is required. Designed to prepare the student for satisfactory college writing. May be offered as an Honors course.

(C-ID ENGL 100)

1501.00

**1B Advanced Composition and Critical Thinking (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Using primarily non-fiction reading models, students emulate and incorporate various rhetorical strategies in the development of written analysis and researched argumentation. Focus on logical analysis and effective reasoning (e.g., inductive and deductive), establishing credibility, and emotional appeals to develop persuasive arguments. Course is writing intensive with a minimum production requirement of 6,000 words. May be offered as an Honors course.

(C-ID ENGL 105)

1501.00

**1C Introduction to Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Introduces representative works from major genres, develops students' close reading and analytical writing skills, and promotes appreciation and critical understanding of the cultural, historical, and aesthetic qualities of literature. Introduces the central literary genres: novel, short story, poem, and play. Close reading of the literature guides inexperienced readers toward greater understanding and appreciation of imaginative literature, and provides more experienced readers with new perspectives through the analysis of the techniques and purposes of specific writers. Students are taught how to organize and compose the literary essay. May be offered as an Honors course.

(C-ID ENGL 120)

1501.00

**7A Creative Writing: Short Fiction (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Seminar in short fiction writing. Students study the underlying principles of this form of literature, write short stories, and analyze each other's work. 1507.00

**7B Creative Writing: Fiction (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Seminar in fiction writing, focused on longer works. Students study the underlying principles of this form of literature; write longer and more developed short stories, novellas, or several chapters of a novel; analyze and critique each other's work; edit/revise/rewrite to ready for publication; and research potential markets for submission. 1507.00

**7D Creative Writing: Poetry (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Writing seminar focusing on analysis of methods, forms, and meanings of poetry with emphasis on the elements of figurative language, sound, rhythm, and tone. Students develop critical standards for judging the worth of a poem, give their critical estimates of professional and student work, and write their own poetry. 1507.00

**7E Creative Writing: Nonfiction (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Course in creative nonfiction writing. Review of the principles employed in writing creative nonfiction such as memoirs, personal essays, reviews, profiles, nature articles, and reportage. Students create essays, analyze and respond to student and professional writing, craft works intended for publication, and research potential markets for submission. 1507.00

**32 Introduction to the Novel (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Reading and analysis of novels of established merit drawn from multiple cultures.

1503.00

**33 Introduction to Poetry (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Survey of poetry written in English from the Middle Ages through the present day. Increases students' knowledge of poetry and its history and acquaints them with techniques of analysis. Special attention is given to poetic voice, syntax, figures of speech, sonics, and form. NOTE: English 33 is not a creative writing course for poetry.

1503.00

**35 Literary Magazine Production (4)****(CSU)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.**Advisory: Strong word processing skills.*

Concepts and practices of magazine production, including the design and maintenance of a web version. Acting as editors and assistants for The Chaffey Review, students master the fundamentals of editorial evaluation and selection, copyediting, proofreading, layout and design, production, promotion, and distribution.

1507.00

**68 Mythology (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.**Advisory: Completion of English 1A.*

Major myths, especially in relation to the culture in which they arose, with a special emphasis on Greek myths. Broad comparison of the myths of many cultures and their influence on subsequent literature.

1503.00

**70A World Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Chronological survey of significant authors and texts of world literature from earliest times through the mid-1600's. Selected works derive from Europe, the Middle East, Asia, and other areas. Extensive reading and discussion of works reflecting the diversity of thought in the world. Examination of the relationship between historical events and literary works, and the impact of works on their age and ensuing eras. Strong writing component with emphasis on textual analysis.

(C-ID ENGL 140)

1503.00

**70B World Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Chronological survey of significant authors and texts of world literature – including Europe, the Middle East, Asia, and other areas – from the mid-17th century to the present. Extensive reading and discussion of works reflecting diverse cultural viewpoints. Examination of the relationship between historical events and literary works, and the impact of works upon their age and ensuing eras. Strong writing component with emphasis on textual analysis.

(C-ID ENGL 145)

1503.00

**71 Folklore (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Introduction to folklore and analysis of its various forms: myths, legends, fairy tales, fables, epics, and tall tales. Course consists of close reading of selected works and discussion of criteria for assessing the literary value of these stories and determining their significance as the primary source of themes, motifs, metaphors, and allusions that are encountered throughout literature.

1503.00

**74 Asian-American Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Introductory analysis of Asian-American literatures. Investigation of literary modes including drama, poetry, essays, short stories, and the novel. Identification and analysis of recurrent themes, gender portrayals, writing styles, and topics associated with Asian-American authors. Evaluation of the social, cultural, and political influence of Asian-American writers on the United States, as well as the impact of the dominant U.S. society in Asian-American writing during the twentieth century.

1503.00

**75A American Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Chronological survey of significant authors and texts of American literature from its beginnings in the colonial period to the 1860s. Extensive reading and discussion of works reflecting the diversity of the United States. Examination of the relationship between historical events and literary works. Strong writing component with emphasis on textual analysis.

(C-ID ENGL 130)

1503.00

**75B American Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Chronological survey of significant authors and texts of American literature from the 1860s to the present. Extensive reading and discussion of works reflecting the diversity of the United States. Examination of the relationship between historical events and literary works. Strong writing component with emphasis on textual analysis.

(C-ID ENGL 135)

1503.00

**76 African-American Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Introductory analysis of African-American literatures. Investigation of literary modes including drama, poetry, essays, short stories, and the novel. Identification and analysis of recurrent themes, gender portrayals, writing styles, and topics associated with African-American authors. Evaluation of the social, cultural, and political influence of African-American writers on the United States, as well as the impact of the dominant U.S. society in African-American writing during the twentieth century.

1503.00

**77 Latino Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Introductory analysis of Latino literature written in English. Investigation of literary modes including drama, poetry, essays, short stories, and the novel. Identification and analysis of recurring themes, gender portrayals, writing styles, and topics associated with Latino writers. Evaluation of the social, cultural, and political influence of Latino writers on the United States, as well as the impact of the dominant U.S. society in Latino writing during the twentieth and into the twenty-first centuries.

1503.00

**79 Native American Literature (3)****(CSU; UC)**

Hours: 48-54 lecture

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Introductory analysis of the literary, social, and cultural aspects of novels, short stories, essays, and poetry reflecting Native American societies. Contributions of Native Americans to literature and how they use the various literary forms to express their worldviews and cultures. Relationship to Western culture, including cultural norms and the changing view of the Indians of yesteryear and today.

1503.00

**80A Survey of British Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Chronological survey of major authors and texts of British literature from the Old English to the Neoclassic period (up to the last quarter of the 18th century). Extensive reading and discussion of works. Examination of the relationship between historical events and literary works. Strong writing component with emphasis on textual analysis.

(C-ID ENGL 160)

1503.00

**80B Survey of British Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Chronological survey of major authors and texts of British literature from the late 18th century to the present. Includes contemporary British and post-colonial texts. Extensive reading and discussion of works. Examination of the relationship between historical events and literary works. Strong writing component with emphasis on textual analysis.

(C-ID ENGL 165)

1503.00

**81 Shakespeare (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A and 80A.*

Intensive reading, along with oral and written discussion, of a selected group of Shakespearean plays.

1503.00

**475 Fundamentals of College Reading and Writing (4)****(Degree-applicable)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 475 as determined by the Chaffey assessment process, or satisfactory completion of English 575.*

Careful study and practice of critical thinking, reading, and expository writing techniques, using primarily nonfiction texts, and the frequent writing of compositions with the ultimate goal of writing an essay using sources. Prepares the student for English 1A and a variety of academic disciplines. Five hours of supplemental learning in a Success Center that supports this course are required.

1501.00

**575 Introduction to College Reading and Writing (4)****(Non-degree-applicable)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 575 as determined by the Chaffey assessment process.*

An introduction to the academic reading, writing, critical thinking, and study skills expected at the college level with the ultimate goal of producing clear, competent essays. Emphasizes the connections between reading and writing, and students read and write extensively. Seven hours of supplemental learning in a Success Center that supports this course are required.

1501.00

**675 Preparation for College Reading and Writing (0)****(Non-credit)**

Hours: 64-72 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Eligibility for English 675 as determined by the Chaffey assessment process.*

Introduces the inexperienced reader and writer to a variety of pre-college and college-level texts and writing situations. Prepares students for the thinking, reading, and writing skills necessary to succeed at the college level. Ten hours of supplemental learning in a Success Center that supports this course are required. Upon successful completion of the course student may re-assess for possible placement into the credit curriculum. May be taken three times.

1501.00

**ENGLISH AS A SECOND LANGUAGE (ESL)****475 Fundamentals of College Reading and Writing for ESL Students (4)****(Degree-applicable)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for ESL-475 as determined by the Chaffey assessment process, or satisfactory completion of English as a Second Language 556 and 558.*

Careful study and practice of critical thinking, reading, and expository writing techniques for non-native speakers of English. Uses primarily nonfiction texts to facilitate composition writing, with the ultimate goal of writing an essay using sources. Prepares the student for English 1A and a variety of academic disciplines. Five hours of supplemental learning in a Success Center that supports this course is required.

4930.87

**508 Pronunciation of American English (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation into English as a Second Language 544, 546, or 548 or higher level course by the ESL assessment test, or satisfactory completion of English as a Second Language 534, 536, or 538.*

Intensive instruction in the oral production of American English, targeted to intermediate and advanced ESL students. Focus on speaking and pronunciation skills to improve fluency and minimize accent impact imparted by the speaker's native language. Topics include: sound systems of consonants and vowels, pitch and intonation patterns, rhythm and phrasing, and sound reductions. Eight hours of supplemental learning in a Success Center that supports this course is required.

4930.86

**534 Intermediate Oral Communication (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the ESL assessment test, or satisfactory completion of ESL-641.*

A conversational approach to learning English. Conversation skills and language used in reading, listening, writing, and grammar form. Course builds fluency and comprehension. Eight hours of supplemental learning in a Success Center that supports this course is required.

4930.86

**536 Intermediate Reading and Vocabulary Skills (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the ESL assessment test, or satisfactory completion of ESL-641.*

An intermediate level reading course. Emphasis is on reading in class, vocabulary development, general comprehension, reading for details, fact versus opinion, and reading speed.

4930.85

**538 Intermediate Writing and Grammar (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the ESL assessment test, or satisfactory completion of ESL-641.*

An intermediate level writing and grammar course. Focus is on improving written grammar and fluency. Skills emphasis: tenses, mechanics, sentence structures, transitions, and basic paragraph structure. Eight hours of supplemental learning in a Success Center that supports this course is required.

4930.84

**544 High-Intermediate Oral Communication (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the ESL assessment test, or satisfactory completion of ESL-534.*

A communicative approach to learning English. Conversation strategies, pronunciation work, and directed listening activities help build strong fluency and comprehension. Eight hours of supplemental learning in a Success Center that supports this course is required.

4930.86

**546 High-Intermediate Reading and Vocabulary Skills (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the ESL assessment test, or satisfactory completion of ESL-536.*

A high-intermediate reading course. Emphasis is on independent reading, vocabulary enrichment and development, morphology, comprehension, reading for details, and critical thinking. 4930.85

**548 High-Intermediate Writing and Grammar (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the ESL assessment test, or satisfactory completion of ESL-538.*

A high-intermediate writing and grammar course. Focus moves the writer away from personal to academic writing. Emphasis: syntax, mechanics, usage, sentence types, paragraphs, purpose, and audience. Eight hours of supplemental learning in a Success Center that supports this course is required. 4930.84

**554 Advanced Oral Communication (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the ESL assessment test, or satisfactory completion of ESL-544.*

A communicative approach to advanced spoken English. Conversational tactics, presentation strategies, and debating skills help build strong fluency and comprehension of academic topics. Prepares students for degree-applicable courses. Eight hours of supplemental learning in a Success Center that supports this course is required. 4930.86

**556 Advanced Reading and Vocabulary Skills (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the ESL assessment test, or satisfactory completion of ESL-546.*

An advanced reading course. Focus: improve reading efficiency by expanding vocabulary, comprehension, critical thinking, and study skills. Students practice and develop whole language and critical thinking skills. Prepares students for degree-applicable courses. 4930.85

**558 Advanced Writing and Grammar (3)****(Non-degree-applicable)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the ESL assessment test, or satisfactory completion of ESL-548.*

An advanced writing course. Focus: paragraph development and expository writing, including basic essays. Skills emphasis: audience, purpose, point of view, advanced syntax, tone, and rhetorical modes. Prepares students for degree-applicable courses. Eight hours of supplemental learning in a Success Center that supports this course is required. 4930.84

**640 Literacy-Level English (0)****(Non-credit)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation by the Chaffey ESL assessment test.*

Beginning course in English as a Second Language that focuses on survival English skills and introduces the student to the structure of the American classroom. Emphasis is on basic vocabulary and deducing meaning from the written and spoken word. This course – in conjunction with ESL-641 - prepares students for English as a Second Language credit courses. Ten hours of supplemental learning in a Success Center that supports this course is required. May be taken twice. 4930.87

**641 Everyday English (0)****(Non-credit)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Advisory: Placement recommendation by the Chaffey ESL assessment test, or completion of English as a Second Language 640.*

Multi-level course (high-beginning to intermediate) in English as a Second Language that focuses on the use of English language skills in everyday contexts. Emphasis on vocabulary development, listening comprehension, pronunciation, oral practice, and basic reading and writing. This course - in conjunction with ESL-640 - prepares students for English as a Second Language credit courses. Ten hours of supplemental learning in a Success Center that supports this course is required. May be taken twice. 4930.87

**650 English and Citizenship (0)****(Non-credit)**

Hours: 48-54 lecture.

Grading: Pass/No Pass grade only.

*Prerequisite: Placement recommendation at English as a Second Language 534, 536 or 538 or higher by the ESL assessment test, or satisfactory completion of English as a Second Language 641.*

A beginning course for non-native speakers of English who wish to become citizens of the United States. Topics: basic English, basic U.S. history and government, and American culture and civics. May be repeated. 4930.90

**FASHION DESIGN (FASHD)****20 History of Fashion (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Origin and evolution of apparel styles through history, from Egyptian to contemporary periods. Sociological, economic, political, and physical factors affecting apparel choices through the centuries. Trends of recurring styles throughout the fashion cycle. 1303.00

**40 Beginning Clothing Construction (2) [Cx]****(CSU)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

Principles and techniques for developing fundamental skills in clothing construction using woven fabrics. 1303.10

**42 Advanced Clothing Construction (2)****(CSU)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Fashion Design 40.*

Techniques of couture sewing, tailoring, and the handling of specialty fabrics. 1303.10

**45 Design Fundamentals for Fashion and Interiors (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Identification and utilization of the elements and principles of design common to fashion and interior design, while encompassing all arts including painting, sculpture, and architecture. Emphasis on creative expression through utilization of good design principles and elements. 1303.10

**61 Pattern Drafting I (3) [Cx]****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Corequisite: Fashion Design 40 (may be taken previously).*

Theory and practice in developing flat patterns for apparel utilizing industry standards and full-scale blocks. Garments, photos and illustrations are analyzed for design and translated to paper patterns, then sewn in muslin to test for design replication, garment fit and pattern accuracy. 1303.10



**65 Fashion Illustration (2) [Cx]****(CSU)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introductory fashion sketching, leading to more advanced fashion figure drawing and descriptive rendering for fashion designers, illustrators, and merchandisers. Development of original designs and the uses of techniques of drawing for retail fashion advertising. 1303.00

**72 Fashion Draping (2)****(CSU)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Fashion Design 40.**Advisory: Completion of Fashion Design 61.*

Three dimensional draping in muslin and other textile and non-textile materials, and translation of the drape to a hard pattern. 1303.10

**428 Computer-Aided Design (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Basic computer skills are recommended.*

Introductory course using CAD software to create flat sketches, colorize designs, and scan images. Effective use of program features to create and alter shapes, and manipulate text. 1303.10

**442 Industrial Sewing (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Fashion Design 40.*

Industrial construction techniques and assembly of apparel utilizing industrial sewing machines, with a special emphasis on stretch fabrics. 1303.30

**445 Fitting and Alterations of Patterns and Apparel (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Corequisite: Fashion Design 40 (may be taken previously).*

Analysis of personal figure variations and application of pattern adjustments for customized dimensions and proper fit. Topics include ready-to-wear and commercial pattern alterations, and the development of custom patterns. Students will examine how pricing, skills and equipment requirements, and client management issues affecting small alterations businesses. 1303.30

**470 Apparel Production (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Corequisite: Fashion Merchandising 10 (may be taken previously).**Advisory: Completion of Fashion Design 40.*

The design, development, pricing, sourcing, sample making, manufacturing, and marketing of a line of clothing. 1303.30

**471 Advanced Patternmaking (3)****(Degree-applicable)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Fashion Design 61.*

Theory and practice in developing flat patterns for sportswear, suits, linings and knitwear. Research of design details in more complicated garments and interpretation of this detail into full-scale patterns. Patterns are cut and corrected first in muslin, then in designer fabric, with the final pattern ready for the production process. 1303.30

**472 Computer-Aided Patternmaking (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Fashion Design 61.**Advisory: Basic computer skills are recommended.*

Beginning study of computer applications in patternmaking, including terminology and operation of the software programs. Topics include pattern creation, manipulation, grading, file storage, and reports to apparel contractors and managers. Use of pattern technologies current to the industry to produce preproduction and production documents. 1303.30

**480 Design Collection (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Fashion Design 42 and 61.*

Preparation of a collection of garments for use in a runway show. Students must sketch, design, draft or drape patterns, select fabrics, and construct garments for a collection. 1303.30

**482 Industry Internship: Fashion Design (1)****(Degree-applicable)**

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience.

Grading: Letter grade only.

*Limitation on Enrollment: Consent of instructor is required prior to registration.**Prerequisite: Fashion Design 61 and Fashion Merchandising 10.*

*Corequisite: Fashion Design 42 (may be taken previously) and Fashion Merchandising 60 (may be taken previously)*

Industry internship in cooperation with area private and public sector employers providing new or expanded learning opportunities directly related to fashion design and production, and readying the student for employment. 1303.00

**FASHION MERCHANDISING (FASHM)****10 Introduction to the Fashion Industry (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Basic study of the fashion design and merchandising industry including leading designers and geographical centers, distribution, textile and apparel production, fashion cycles, retail outlets, merchandising techniques, and employment opportunities. 1303.20

**11 Retail Merchandising and Management (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Fashion Merchandising 10.*

Role of retailing in serving the needs of the community. Analysis of consumer needs, store location, financial requirements, and legal process of starting a retail operation. Planning for store layout, merchandise mix, vendor negotiation, pricing, displaying, advertising, selling, and controlling of merchandise. 1303.20

**12 Visual Merchandising (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Store design and space planning to maximize fashion sales. Visual display of store windows and vignettes using proper techniques and art principles. 1303.20

**15 Image and Fashion Selection (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Clothing choices for the professional workplace and California lifestyles. Analysis of body composition and proportions, individual coloring, and personality in the selection of a trendy, sophisticated, comfortable, and budget-appropriate wardrobe. 1303.20

**60 Textiles (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study of the textile fibers, yarns, weaves, and finishes which give the consumer and designer a background for intelligent selection, use, and care of modern fabrics. Special emphasis on man-made fibers, their manufacture, properties, and use. 1303.20

**482 Industry Internship: Fashion Merchandising (1)****(Degree-applicable)**

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience.

Grading: Letter grade only.

*Limitation on Enrollment: Consent of instructor is required prior to registration.**Prerequisite: Fashion Merchandising 10, 11 and 60.*

Industry internship in cooperation with area private and public sector employers providing new or expanded learning opportunities directly related to fashion design merchandising and readying the student for employment. 1303.20

**FIRE TECHNOLOGY (FIRETEC)****1 Principles of Emergency Services (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Overview of fire protection and emergency services. Topics include career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; and life safety initiatives. 2133.00

**2 Fire Behavior and Combustion (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Course explores the theories and fundamentals of fire causation, spread, and control. In-depth study of fire chemistry and physics, characteristics of combustible and flammable substances, unique dangers of hazardous materials, types of extinguishing agents, and fire control techniques. 2133.00

**3 Fire Protection Systems (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Course provides information relating to the design features and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. 2133.00

**4 Building Construction for Fire Protection (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Components of building construction relating to fire safety. Effects of construction and structural design as key factors in building inspection, fire operations preplanning, and fire site operations. Evolution of building and fire codes, developed in response to historical fires, in residential, commercial, and industrial occupancies. 2133.00

**5 Fire Prevention (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

History and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, and the identification and correction of fire hazards. The relationship of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education. 2133.00

**6 Fire Apparatus and Equipment (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to the mechanized equipment operated by fire service personnel and the regulations pertaining to its use. Topics include: driving laws and techniques, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment, and apparatus maintenance. 2133.00

**7 Strategies and Tactics (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Fire Technology 1.*

Principles of fire control, through utilization of manpower, equipment, extinguishing agents, and fire command and control procedures. Use of information on building construction types in fire control. Pre-fire planning and the organized approach to decision making on the fire ground. 2133.00

**8 Fire Ground Hydraulics (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Fire Technology 1 and 6.**Advisory: Completion of Mathematics 510*

Principles of hydraulics, hydraulic measurements, engine and hose appliance calculations, discharge and velocity flow calculations, and engine and nozzle pressure determination in field situations. 2133.00

**10 Wildland Fire Control (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Fire Technology 2.*

Course provides students with a fundamental knowledge of the factors affecting wildland fires including fuel, weather, topography, prevention, fire behavior, and public education. Students also learn about control techniques common to all agencies involved in wildland fire control. 2133.10

**402 Basic Incident Command Systems – ICS-200 (1)****(Degree-applicable)**

Hours: 16-18 lecture.

Grading: Letter grade only.

*Prerequisite: Fire Technology 1.*

Provides students with a working knowledge of the Incident Command System (ICS) function, organization, features, facilities, resources, and responsibilities. Topics include leadership and management, delegation of authority and management by objectives, functional areas and positions, briefings, organizational flexibility, transitions and transfers. 2133.50

**406 Hazardous Materials First Responder Operations (2)***(replaces Fire Technology 405)***(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Advisory: Completion of or concurrent enrollment in Fire Technology 1.*

Provides current and potential public safety workers, who are likely first responders, with skills to respond to events involving hazardous materials in a safe and professional manner. Course includes reporting requirements involving hazardous materials, defensive tactics to contain the hazardous materials, containment issues, exposure prevention, processes used in decontamination. Meets OSHA requirements under Title 8 CCR 5192 and 29 CFT 1910.120. 2133.00

**409 Principles of Fire and Emergency Services Safety and Survival (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. 2133.00

**420 Fire Inspector 1A – Duties and Administration (2)****(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Prerequisite: Fire Technology 1 and 5, and eligibility for English 1A as determined by the Chaffey assessment process or completion of English 475 or English as a Second Language 475.**Advisory: Course assumes familiarity with firefighting procedures and protocols, as it is designed for certified fire personnel. Non-firefighters are permitted to take the course, however they are ineligible to apply for the State Fire Marshall CFTES certificate upon successful completion of the course.*

Provides fundamental information regarding the responsibility and authority for fire inspections, principles and procedures used to correct fire hazards, and occupancy classifications. 2133.50

**421 Fire Inspector 1B – Fire and Life Safety (2)****(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Prerequisite: Fire Technology 420.*

*Advisory: Course assumes familiarity with firefighting procedures and protocols, as it is designed for certified fire personnel. Non-firefighters are permitted to take the course, however they are ineligible to apply for the State Fire Marshall CFTES certificate upon successful completion of the course.*

This course provides students with a basic knowledge of fire and life safety aspects related to the roles and responsibilities of a Fire Inspector I, including building construction, occupancy classifications, occupancy load, means of egress, hazardous conditions, fire growth potential, fire flow, and emergency planning and preparedness measures. 2133.50

**422 Fire Inspector 1C – Field Inspection (1.5)****(Degree-applicable)**

Hours: 24-27 lecture.

Grading: Letter grade only.

*Prerequisite: Fire Technology 421.*

*Advisory: Course assumes familiarity with firefighting procedures and protocols, as it is designed for certified fire personnel. Non-firefighters are permitted to take the course, however they are ineligible to apply for the State Fire Marshall CFTES certificate upon successful completion of the course.*

This course provides students with a basic knowledge of field inspection roles and responsibilities of a Fire Inspector I, including basic plan review; emergency access for an existing system; hazardous materials; and the operational readiness of fixed fire suppression systems, existing fire detection and alarm systems, and portable fire extinguishers. 2133.50

**423 Fire Inspector 1D – Field Inspection: California Specific (1)****(Degree-applicable)**

Hours: 16-18 lecture.

Grading: Letter grade only.

*Prerequisite: Fire Technology 422.*

*Advisory: Course assumes familiarity with firefighting procedures and protocols as it is designed for certified fire personnel. Non-firefighters are permitted to take the course, however they are ineligible to apply for the State Fire Marshall CFTES certificate upon successful completion of the course.*

Course provides students with basic knowledge of a Fire Fighter I's field inspection roles and responsibilities specific to California, including tents, canopies, and temporary membrane structures; fireworks and explosives; and wildland-urban interface environments. 2133.50

**FRENCH (FR)****1 Elementary French 1 (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

A systematic presentation of language patterns and of the underlying cultural ideas necessary for communicating in the four basic skills of listening, speaking, reading, and writing. Students are introduced to the life, culture, and language of the French-speaking populations. Ten hours of supplemental learning in a Success Center that supports this course is required. This course corresponds to the first year of high school French. 1102.00

**2 Elementary French 2 (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: French 1 or one year of high school French.*

Continued systematic presentation of language patterns and of the underlying cultural ideas that lead to facility in the four basic skills of listening, speaking, reading, and writing. Reading selections introduce various aspects of the life and culture of the French-speaking peoples. Ten hours of supplemental learning in a Success Center that supports this course is required. 1102.00

**15 French Conversation (2)****(CSU)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Prerequisite: French 1 or one year of high school French.*

Practice in listening to and speaking French, with emphasis on everyday speech patterns. Subjects for extemporaneous conversation stress practical situations and cultural background. 1102.00

**GEOGRAPHY (GEOG)****1 World Regional Geography (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of the world's culture regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identification and importance of the significant features of regions. Use of maps and regional analysis to interpret world patterns of demography, economies, resources, religions, and languages in relationship to landforms and climate. Current world events discussed in an international framework. 2206.00

(C-ID GEOG 125)

**3 Geography of California (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

A thematic approach to the state's issues, processes and topics relevant to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical, and human landscapes that have evolved as a result of the human-environment interface. 2206.00

(C-ID GEOG 140)

**4 Physical Geography (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Spatial study of the Earth's dynamic physical systems and processes. Topics include Earth-sun geometry, weather, climate, water, landforms, soil, and the biosphere. Emphasis is on the interrelationships among environmental and human systems and processes, and their resulting patterns and distributions. Tools of geographic inquiry are also briefly covered; they may include: maps, remote sensing, Geographic Information Systems (GIS) and Global Positioning Systems (GPS). Broad-based course with an interdisciplinary outlook. 2206.00

(C-ID GEOG 110)

**5 Physical Geography Laboratory (1)****(CSU; UC)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Corequisite: Geography 4 (may be taken previously).*

Course is designed to provide supplemental exercises in topics covered in Physical Geography lecture. Lab experience includes map analysis and interpretation, weather prognostication, landform processes and evolution, tectonics, biogeography, and habitat analysis. Field trips provide the opportunity for on-site field interpretation of climate, soils, landforms, plants, and animal distribution. 2206.00

(C-ID GEOG 111)

**6 Environmental Geography (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Global perspectives on environmental geography. Geographical approach to the biosphere: environmental principles, economics and environment, human impact, extinction and biodiversity, food/population crises, the social environment, global tampering, global climate change and contemporary values in global environmental issues. 2206.00

**10 Cultural Geography of North America (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Cultural geography of North America in time and space. The dynamics and ethnicity of North American culture is traced through discovery, exploration, settlement patterns, aboriginal patterns, national interests, economic exploitation, agriculture, commerce, ethnicity, demography, and changing attitudes. Emphasis on the origin and diffusion of North American cultural traditions. 2206.00

**11 Human Geography (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study of diverse human populations, their cultural origins, diffusion, and contemporary spatial expressions. Topics include demography, languages and religions, urbanization and landscape modification, political units and nationalism, and economic systems and development.

(C-ID GEOG 120)

2206.00

**GEOLOGY (GEOL)**

(SEE ALSO EARTH SCIENCE)

**1 Physical Geology (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to the principles of geology with emphasis on Earth processes. Course focuses on the internal structure and origin of the Earth and the processes that change and shape it. The laboratory component focuses on the identification of rocks and minerals, topographic and geologic map exercises demonstrating the work of water, wind, ice and gravity and the effects of tectonic activity.

(C-ID GEOL 101)

1914.00

**2 Historical Geology (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Geology 1.*

History of the earth and the evolution of life forms including dinosaurs. Formation of the earth, plate tectonics, ancient environments recorded in sedimentary rocks, and evolution of life as reflected in the fossil record.

(C-ID GEOL 111)

1914.00

**GERONTOLOGY (GERO)****11 Introduction to Gerontology (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Interdisciplinary overview of the diverse characteristics, strengths, and needs of the increasing number of older persons. Topics include aging services and community resources, occupations and career preparation in gerontology, information on aging and old age, laws and regulations governing work with the elderly, and ethical and policy issues.

1309.00

**18 Aging and the Life Course (3)****(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

The scientific study of the social, cultural, and policy issues for an aging society from a gerontological perspective. Through gerontological research, study diversity in the aging process: cultural, economic, gender, and ethnic differences. Study aging as social construct including life-long age status and role expectations on a gerontological perspective. Emphasis on society's response and "call to action" to an increasingly large aging population. May be offered as an Honors course.

1309.00

**22 Dying and Death (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study of death from a gerontological perspective, including historical views, societal practices, cross-cultural influences, biomedical issues including active and passive euthanasia, suicide, death rites, and the grieving process. Overview of the legal aspects of organ donation, autopsies, advanced directives, and living wills. 1309.00

**23 Aging and Older Adulthood (3)****(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study of the aging process from a gerontological perspective with emphasis on major theories of aging, stereotypes about aging and older adults, changes in physical health, cognition, and social relationships during later life.

1309.00

**400 Principles of Caregiving: Older Adults and Their Care (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Gerontology 11*

Functions and responsibilities of caregiving for older adults in both formal and informal settings. Students explore medically-related as well as the social and emotional needs of those receiving care. Topics include individualized assessment, problem solving, interventions, effective communication, client advocacy, and functional decline factors.

1309.00

**404 Health and Wellness for Older Adults (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Understanding healthy aging as well as chronic conditions of later life. Health behaviors and lifestyle factors that contribute to good health in later life. Wellness practices that contribute to disease prevention.

1309.00

**405 Resources and Services for Older Adults (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

Provides students with skills needed to access community resources and services for older adults. An introduction to resources, services, eligibility requirements, and funding. An overview of strategies to locate resources through direct contact as well as Internet research. Students acquire a basic understanding of applications pertinent to gerontological service settings, and learn to locate resources, programs, and services for older adults.

1309.00

**406 Gerontology Career Practicum (1)****(Degree-applicable)**

Hours: 60 hours/term unpaid on-site work experience.

Grading: Letter grade only.

*Prerequisite: Gerontology 11*

Supervised work experience in public or private agencies, facilities, or organizations. Designed to apply gerontological knowledge, learn new skills, and provide career-related work experience in community situations. Placement is arranged through the instructor.

1309.00

**422 Dementia Care: Understanding Dementing Illnesses (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

The study of dementing illness from a gerontological perspective, including normal aging versus dementia, Alzheimer's Disease and other dementias, and the assessment and treatment of dementing illnesses. Overview of medical and social models of care, the influence of environmental design, ethical issues, cultural differences that affect the experience of dementing illness and care, and the availability of community resources for those with dementia.

1309.00

**462 Activity Coordinator Training (4)****(Degree-applicable)**

Hours: 64-72 lecture.

Grading: Letter grade only.

State-certified training for individuals working as activity directors in a skilled nursing facility. Practice in documentation and familiarization with Title 22 requirements, OBRA regulations, job description, basic medical terminology, and skills necessary for an activity director. Organizing, implementing and evaluating activities programs. Geriatric drugs, psycho-social needs, and other aging issues. Producing activity calendars, maximizing patient interests and participation. Therapeutic and bedside activities. Styles of leadership, and an overview of the functions of the interdisciplinary team.

1309.00



**463 Social Work Designee Training (3) [Cx]***(Degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Functions and responsibilities of the social work designee charged with meeting the medically-related social and emotional needs of residents in long-term care facilities. Topics include assessment, care plans, patient advocacy, interventions, problem solving, behavioral modifications, family dynamics, elder care and abuse, bioethics, spiritual needs, and community resource development. 1309.00

**GUIDANCE (GUID)****2 Essentials of Student Success (2)***(CSU)*

Hours: 32-36 lecture.

Grading: Letter grade only.

Designed to increase student proficiency and retention in college. Topics include: learning styles, study and time management techniques, motivation, library research methods, critical thinking, memory and reading strategies, and exploration of college services. Helps students develop the personal and interpersonal communication skills critical to becoming responsible learners. Introduces students to the various segments of higher education in California. 4930.10

**3 Career Exploration and Life Planning (3)***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Career and life planning for students seeking direction in setting life, academic and career goals. Use of a psychological-social perspective highlights the person environment dynamics influential in the preparation for a fulfilling career and personal development. Topics include problem-solving approaches; evaluation of values, interests, skills, and personality characteristics; intensive career investigation; self-marketing skills development; psychological and social issues that impact career and life choices; academic learning strategies; college and life skills; diversity; and assessment of personal characteristics related to educational success. 4930.10

**507 Opening Doors to Student Effectiveness (3)***(Non-degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Designed for returning and continuing students to address the academic and personal challenges of student effectiveness. Various assessment tools are employed to identify and evaluate student preparation and attitude for a successful college experience. Positive growth and self-motivation strategies are explored, with a special focus on developing an educational plan and life goals. Students address previously employed learning skills and methods to evaluate their effectiveness. New and improved methods of study, time management, and the utilization of college support programs are mastered and applied. Three hours of supplemental learning in a Success Center that supports this course is required. 4930.14

**508 Bridging to College Success (3)***(Non-degree-applicable)*

Hours: 48-54 lecture.

Grading: Letter grade with option for pass/no-pass grade.

*Advisory: Completion of the Chaffey assessment process.*

Designed to increase new student proficiency and retention in college through the development of study techniques, improved strategies for learning associated with learning styles theory, and in depth exploration of college programs and services. Targeting at-risk students, this course addresses effective personal habits, emotional and social intelligence, self-esteem and confidence building, educational planning, and goal setting. Five hours of supplemental learning in a Success Center that supports this course is required. 4930.14

**650 Supervised Tutoring (0)***(Non-credit)*

Hours: Variable and arranged; based on student need as determined by assessment, diagnostic instruments, and/or instructor recommendation.

Grading: Not graded.

*Limitation on Enrollment: Referral by course instructor or academic counselor is required. Student must be enrolled in another Chaffey College course.*

Open-entry/open-exit supervised tutoring course that provides students assistance in understanding college course assignments. Individualized/small group tutoring and Supplemental Instruction (SI) sessions are conducted outside of class time in a learning assistance center, and are structured to help students achieve specific course objectives or improve learning and study skills in specific subject matter. The content of this course varies according to the course for which tutoring is sought. May be repeated. 4930.09

**HISTORY (HIST)****1 World History: Pre-Civilization to 1500 (3)***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Comparative, integrative study of the world's major civilizations, from pre-history to 1500, including those in Eurasia (Mesopotamia, Egypt, Hebrews, Greece and Rome, India and China), Africa, and the Americas. Emphasis on the similarities and differences between these civilizations, and on their influences on the unfolding of human history. May be offered as an Honors course.

(C-ID HIST 150)

2205.00

**2 World History: 1500 to Present (3)***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Cross-cultural study of all the major civilizations of the world since 1500. The unifying theme is understanding the causes of the rise of the West, the reaction of the non-Western world to it, and the ongoing dynamics of the "West versus the Rest" dialectic. May be offered as an Honors course.

(C-ID HIST 160)

2205.00

**4 History of Slavery (3)***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Survey of slavery from ancient times to the present. The origins of slavery in human societies, development as an institution, and the impact on the course of world history.

2205.00

**5 Early Western Civilizations (3)***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Development of the cultural foundations of Western peoples from prehistoric times, through the rise and diffusion of civilization in the era of Middle Eastern dominance and the Middle Ages, and culminating with the Renaissance period in Western Europe.

(C-ID HIST 170)

2205.00

**6 Modern Western Civilizations (3)***(CSU; UC)*

Hours: 48-54 lecture.

Grading: Letter grade only.

Development of the cultural foundations of Western peoples from the Commercial Revolution and the development of the nation-state in Europe through the French Revolution, and the Industrial Revolution. Changes created in Western society by mass politics, world wars and their aftermath, as seen in the modern world.

(C-ID HIST 180)

2205.00

**7 History of the Middle East (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Survey of the history of the Middle East from earliest times to the present, focusing on the period from the birth of the Prophet Mohammad in 570 and the Treaty of Versailles in 1920. 2205.00

**9 History of Asian Civilizations I (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Cultural development of Asian peoples from prehistoric times to the sixteenth century A.D., with emphasis on the religion and philosophy as well as early social and political institutions in China, India, Japan, and Korea. 2205.00

**10 History of Asian Civilizations II (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Cultural development of Asian peoples and nations from the sixteenth century A.D. to the present, with emphasis on the tension created by the impact of the West on traditional Asian institutions in China, Japan, India, and Southeast Asia. Focuses particularly on the response of those cultures in terms of socioeconomic and political developments. 2205.00

**12 Asian American History (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Historical experience of the Asian-American community in the United States from the mid-nineteenth century to today. Overview of specific issues confronted by Asian groups, and their cultural roots, immigration experiences, and settlement patterns. 2205.00

**16 Westward Movement and the Indian Wars 1840-90 (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of the westward movement of the American frontier and the Indian Wars of 1840-1890. Historical significance of the people and events that comprise this crucial period in the formation of the American identity are studied from the perspectives of Native Americans and other ethnic groups, as well as Anglo-Americans. 2205.00

**17 United States History through 1877 (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Survey of United States history from its colonial foundations through Reconstruction. Satisfies the California State University requirement in American History. May be offered as an Honors course.

(C-ID HIST 130)

2205.00

**18 United States History from 1865 (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Development of the United States from the Reconstruction Era through the present. Satisfies the California State University requirement in American History. May be offered as an Honors course.

(C-ID HIST 140)

2205.00

**19 History of Ethnic Relations in the United States (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of the American historical experience of ethnic, gender, and racial relations, as well as introducing fundamental theories of identity, racism and ethnocentrism. Examines the cultural, political and economic practices and institutions that support or challenge racism, racial and ethnic inequalities. Emphasis is given to Native, African, Hispanic, and Asian-American cultural experiences as well as the interrelationships of those minority groups with each other and with the dominant American culture.

(C-ID SOCI 150)

2205.00

**20 History of the United States from 1945-Present (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Careful analysis of recent events in U.S. history from 1945 to the present, including an in-depth analysis of current events, movements and trends.. 2205.00

**21 The Sixties in American History (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Issues and events of the 1960's - one of the most turbulent decades in American history - including Civil Rights and the Vietnam War. May be taught in lecture or seminar format. 2205.00

**25 Women in United States History (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of the history of women in America from the colonial period to the present with emphasis on relevant political, economic, and social factors. 2205.00

**37 California History (3)****(CSU; UC)***Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Survey of the history of California from pre-Columbian times to the present. Topics include native cultures, Spanish colonization, the mission system, Mexican rule and the Mexican war, the gold rush, the state constitution, Progressive Era political reforms, and immigration. Course meets the subject-matter requirements for a Liberal Studies degree, and the subject-matter and state/local government code requirements for students pursuing an Elementary Education degree, in preparation for teaching grades K-8. 2205.00

**40 Retrospective of World War II (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

World War II from the perspective of various viewpoints relative to the war's impact on but not limited to the following: history, sociology, philosophy, literature, the arts, business/technology, psychology, science, political science, religion, economics, and sports. 2205.00

**50 African-American History I (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

African-American experience from the seventeenth-century African heritage to the American Civil War. Focuses on two great transitions: from Africa to New World slavery and from slavery to emancipation. 2203.00

**51 African-American History II (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

African-American experience from emancipation to the present. Focuses on legal and extra-legal racial and gender discrimination in rural and urban settings after emancipation; migrations to northern industries and western lands; and black contributions to United States polity and economy. 2203.00

**70 Chicanos: The Common History of Mexico and the United States (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study of the historical relationship between Mexico and the United States from their common Native American roots to present-day. Examination of pivotal events and their outcomes, such as the Spanish and British colonial systems, processes of independence and nation-building, the Mexican-American War, the 1910 Mexican Revolution, the Oil Crisis of the 1970's, NAFTA, and present border conflicts.

2203.00

**71 Chicanos: The Chicano Minority in the United States (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Historical development of a Mexican-American community and the emergence of a Chicano cultural identity. Social, cultural, political, and economic issues and conflicts affecting the Chicano minority from the nineteenth century to the present.

2203.00

**HOMELAND NATIONAL SECURITY (HNS)****400 Introduction to Homeland Security (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

This course introduces and explores the fundamentals of national security, global security and terrorism. Aspects of U.S. federal, state and local inter-agency cooperation to combat domestic and foreign threats will be discussed. Additional issues of discussion will include Narco-terrorism, terrorist groups and motivation of terrorists.

2105.30

**401 Intelligence Analysis and Security Management (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

This course introduces the concept of intelligence analysis and its relationship to the security management of terrorist attacks, man-made disasters and natural disasters. Vulnerabilities of U.S. national defense and the private sector, as well as the threats posed to these institutions, will be analyzed. Course examines intelligence community operations and associated intelligence support of homeland security measures implemented by the U.S..

2105.30

**402 Transportation and Border Security (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Overview of post 09/11/2001 border and transportation security challenges and strategies used to address them, along with discussion of related security threats from previous periods of history. Investigation of the agencies and allied infrastructure associated with U.S. border security. Assessment of the vulnerabilities inherent to seaports, ships, aircraft, airports, trains, rail lines, trucking, public buses, and pipelines. Impact of technology in security threats and countermeasures.

2105.30

**HOTEL AND FOOD SERVICE MANAGEMENT****(HOTFS)****10 Introduction to Hospitality Management (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

An overview of the hospitality industry with an emphasis on career opportunities and customer services. A brief history of the hospitality industry is included. This course includes an overview of the organization and managements of various segments of the hospitality industry, including restaurants, hotels, convention centers, amusement parks, and areas of leisure and travel.

1307.00

**14 Quantity Food Production Management (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Hotel and Food Service Management 17.*

Management methods for quantity food production in institutional settings. Prepares students for entry-level positions in institutional food service.

1307.10

**17 Principles of Food Preparation (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a current negative tuberculosis test is required.**Prerequisite: Hotel and Food Service Management 18.*

Principles and techniques in professional food preparation, including science and technology of the kitchen, food service safety and sanitation policies and procedures, recipe specifications, and kitchen equipment use and maintenance. Course covers basic culinary concepts such as mise en place; dry and moist cookery; appropriate use of produce, dairy and dry goods; and sustainability using local sourcing. Includes hands-on professional food preparation techniques with an emphasis on collaboration and teamwork.

1306.30

**18 Sanitation, Safety, and Equipment Management (2) [Cx]****(CSU)**

Hours: 32-36 lecture.

Grading: Letter grade only.

Safety, sanitation, and proper equipment management issues in the food service industry. In-depth coverage of industry-based sanitation and safety standards that prevent contamination and food-borne illness, forestall on-the-job accidents and injuries, and preclude equipment misuse and damage. Disaster planning, fire prevention, and basic first aid procedures are highlighted. Special emphasis on the local, state, and federal agencies and programs - such as OSHA, HACCP, and Serv-Safe - having regulatory oversight in food service workplaces.

1307.10

**21 Purchasing, Cost Controls, and Menu Planning (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Principles, policies, and procedures associated with the procurement and conveyance of food and beverages in the food service industry. Deals with markets, federal and trade grades, government regulations, packaging, comparative versions of price buying, yields, and quality control. Focus on systems for selecting product, appropriate receipt and storage, inventory controls, menu item specification development, commercial menu costing strategies, and descriptive menu design and marketing. Fundamentals of menu writing, types of menus, layout, design, and food merchandising. Analysis of menu effectiveness.

1307.10

**22 Restaurant and Catering Operations (3)****(CSU)**

Hours: 16-18 lecture; 96-108 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a current negative tuberculosis test is required.**Prerequisite: Hotel and Food Services 10 and 17.*

Planning, marketing, organization, execution and food preparation for a restaurant or catered banquet facility. Acting as managers and crew, students will produce menus and meals for a variety of functions. Students will utilize the professional and technical presentation methods used for plated meals, buffet luncheons and cocktail party cuisine.

1307.10

**32 Hospitality Law (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study of the legal aspects of hospitality law, both historically and as they exist today. Topics include torts and contracts, real and personal property rights, duties of innkeepers, food and beverage liability, and proper documentation.

1307.00

**422 Hotel Operations (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Operation and organization for the front office within a variety of hospitality facilities. Covers hotel front office, housekeeping, food and beverage, human resources, property maintenance, revenue management and forecasting, pricing, and inventory.

1307.00

**428 Human Resource Management (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Hotel and Food Service Management 10.*

Management of human resources and techniques applicable to the hospitality industry. Topics include: recruitment, selection, hiring, coaching, employee development and motivation, benefits, performance management, counseling and discipline. 1307.00

**431 Hospitality Marketing Management (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Application of basic marketing principles to the hospitality service product. In teams, students learn about hospitality marketing management by developing and presenting strategic marketing plans for a hospitality organization. Identification of the market, image development, advertising, sales promotions, public relations, and the administration and control of a marketing plan. 1307.00

**436A Culinary Arts I (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a current negative tuberculosis test is required.**Prerequisite: Hotel and Food Service Management 17 and 18.**Advisory: Completion of Mathematics 510.*

Introduction to the culinary arts, including a historical and contemporary exploration of cultural cuisines. Practical application of culinary theory and technique that provides students with a realistic experience of professional cooking and kitchen culture. Focus on basic and intermediate knife skills; the production of stocks, soups and sauces; vegetable and starch identification, fabrication, and cookery; egg and breakfast comestibles; and the cold kitchen, including salad, cold sauce, and sandwich preparation. Kitchen safety and sanitation rules are revisited and practiced. 1306.30

**436B Culinary Arts II (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a current negative tuberculosis test is required.**Prerequisite: Hotel and Food Service Management 436A.*

Intermediate study of the culinary arts. Continuing exploration of its foundations, principles, and practical skills, with focus on meat, poultry, fish, and shellfish identification, fabrication, and cookery. Examination of the history and modern interpretations of the art of garde manger, including hors d'oeuvres, pates, terrines, and charcuterie. Production of European, Asian, and American regional cuisines, with special consideration to development, plating, and presentation. Kitchen safety and sanitation rules are reinforced and practiced. 1306.30

**437 Principles of Baking (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a current negative tuberculosis test is required.**Prerequisite: Hotel and Food Service 18.*

Instructs students in the preparation of breads, pastries, baked desserts, frozen confections and sugar work. Applies scientific principles and techniques of baking. Promotes the knowledge and skills required to prepare baked items, pastries and confections. 1306.30

**482 Industry Internship: Hotel and Food Service Management (1)****(Degree-applicable)**

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience.

Grading: Letter grade only.

*Limitation on Enrollment: Consent of instructor is required prior to registration.**Prerequisite: Hotel and Food Service 422 or 436A.*

Supervised work experience in the operation of a hotel, motel, or food service operation. Includes front office, night audit, and marketing experience. Students spend a minimum of 60 hours on the work site. 1307.00

**HUMANITIES (HUMAN)****5 Arts and Ideas: Antiquity to Renaissance (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

An interdisciplinary study of the movements in art, music, literature, and philosophy of Ancient Western Civilization, within a cultural and historical perspective. 1504.00

**6 Arts and Ideas: Renaissance to Modern (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

An interdisciplinary study of the movements in art, music, literature, and philosophy from 1500s Western Civilization to the modern era within a cultural and historical perspective. 1504.00

**20 The Holocaust: History and Philosophy (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Examination of the philosophical underpinnings and historical developments leading to the rise of Nazi Germany and the implementation of a policy of destruction for European Jewry. 2205.00

**INDUSTRIAL ELECTRICAL TECHNOLOGY: CORE (IET)****401A Introduction to Electricity (2.5) [Cx]****(Degree-applicable)**

Hours: 32-36 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Mathematics 510 or a higher level mathematics course.*

Principles of basic electricity. Ohm's Law, series and parallel circuits, conventional current theory, current flow, conductors and insulators, combination circuits, and power ratings. 0934.40

**401B Industrial Basic Controls (2.5) [Cx]****(Degree-applicable)**

Hours: 32-36 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 401A, or one year or more of professional work experience in a related field.*

Study of batteries and other sources of electricity, magnetism, magnetic induction, direct current generators, measuring instruments, resistive and capacitive circuits. 0934.40

**403A Electrical Motors and Controls I (2.5) [Cx]****(Degree-applicable)**

Hours: 32-36 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 401A, or one to two years or more of professional work experience in a related field.*

Principles of motor controls. Topics include: direct current motors, basic trigonometry, alternating current, inductance in alternating current circuits, resistive-inductive series circuits, capacitors, and resistive-inductive-capacitive parallel circuits. 0934.40



**403B Electrical Motors and Controls II (2.5)****(Degree-applicable)**

Hours: 32-36 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 403A, or one year or more of professional work experience in a related field.*

Applications of motor controls. Topics include: resistive-inductive parallel circuits, resistive-inductive-capacitive parallel circuits, three-phase circuits, single- and three-phase transformers, single- and three-phase motors, and three-phase alternators. 0934.40

**405 National Electric Code (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 403A, or two years or more of professional work experience in a related field.*

Interpretation and application of the National Electric Code (NEC), with emphasis on wire size, conduit, motor load protection, classified areas, grounding, and the latest NEC updates. 0934.40

**407 Electrical Blueprints (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 403A, or one year or more of professional work experience in a related field.*

Interpretation of basic ladder diagrams, one line diagrams, electrical symbols, schematics, hydraulic symbols, and diagrams including pictorials. 0934.40

**409 Static Devices (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 403B, or one year or more of professional work experience in a related field.*

Basic static devices, diodes, transistors, field effect transistors, silicon controlled rectifiers, and other solid state devices used in industry. 0934.40

**411 Programmable Logic Controllers (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 403B and 407, or two years or more of professional work experience that includes basic computer skills.*

Ladder diagrams, common computer terms, and operation of the programmer. Verifying and programming of timers and counters. 0934.40

**413 Intermediate Programmable Logic Controllers (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 411, or two years or more of professional work experience that includes basic knowledge of PLC's.*

PLC advanced ladder diagrams; operations of the programmer; verifying, editing, and programming of timers, counters, master control relays, and jump instructions, using a computer. 0934.40

**415 Advanced Electricity Laboratory (2)****(Degree-applicable)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 405, 407, 409, and 411, or two years or more of professional work experience that includes knowledge of PLC's and static devices.*

Application and integration of concepts and skills covered in the prerequisite lecture courses. Topics include: designing motor control systems, translating information from blueprint to ladder diagrams and employing it into the PLC program, and applying assignments into a hardwire system. 0934.40

**417 Electrical Troubleshooting (3)****(Degree-applicable)**

Hours: 40-45 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 403A, 409, and 411, or two years or more of professional work experience that includes knowledge of static devices.*

Applying the knowledge learned on DC/AC motor controls, blueprint reading, and developing troubleshooting skills. 0934.40

**419 DC Variable Speed Drive (1.5)****(Degree-applicable)**

Hours: 16-18 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 403A and 403B, or two years or more of professional work experience in a related field.*

Function and controls of a DC variable speed drive and its application on the field, including adjustments, settings, tuning, and configuration. 0934.40

**421 AC Variable Frequency Speed Drive (1.5)****(Degree-applicable)**

Hours: 16-18 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Industrial Electrical Technology 419, or two years or more of professional work experience in a related field.*

Function and controls of an AC variable frequency drive and its application on the field, including parameter, setting, tuning, and configuration. 0934.40

**422 OSHA Construction Safety Training (2)****(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

Construction industry safety and health standards, taught in accordance with Occupational Safety and Health Administration (OSHA) requirements. Course is targeted to entry-level workers. Upon successful completion, students receive the OSHA (30-hour) card. 0956.70

**482 Internship in Industrial Electricity (1)****(Degree-applicable)**

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience.

Grading: Letter grade only.

*Limitation on Enrollment: Instructor signature is required prior to enrollment.**Prerequisite: Industrial Electrical Technology 401A.**Corequisite: Enrollment in any industrial electricity course.*

Supervised industry internship in cooperation with private or public sector employers. Provides students expanded, hands-on learning opportunities to apply knowledge and learn new skills directly related to their industrial electricity systems program of study, outside of the classroom environment. Placement is arranged by/approved by the instructor. Participation requirements may vary with the job setting. 0934.40

**INDUSTRIAL ELECTRICAL TECHNOLOGY:  
ELECTROMECHANICAL TECHNOLOGY (IETELMT)****430 Hydraulic Fundamentals (2)****(Degree-applicable)**

Hours: 24-27 lecture; 24-27 laboratory.

Grading: Letter grade only.

Introduction to hydraulic fundamentals, demonstration of hydraulic power, basic circuits, functional circuits, and troubleshooting. 0935.00

**432 Electrical Control of Hydraulic Systems (2)****(Degree-applicable)**

Hours: 24-27 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Prerequisite: Industrial Electrical Technology: Electromechanical Technology 430.*

Principles of electrical control of hydraulic systems, electrical concepts of ladder diagrams, functional systems of electrical/hydraulic sequencing of cylinders, industrial applications, and troubleshooting electrically-controlled hydraulic systems. 0935.00

**INTERIOR DESIGN (ID)****10 Introduction to Interior Design (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Overview of the residential interior design field. Examination of floor plans, furniture arrangement, design elements and principles, furniture styles, lighting, flooring, and wall and window treatments. 1302.00

**11 History of Western Architecture and Interiors I (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Furniture, interior and architectural styles of ancient Egypt, Greece, and Rome; and the European Middle Ages, Renaissance, and French periods to 1820. 1302.00

**12 History of Western Architecture and Interiors II (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Furniture, interior and architectural styles of the English, Anglo-American, and late 19th and 20th century Western periods. 1302.00

**16 Quick Sketching for Interior Designers (2.5)****(CSU)**

Hours: 32-36 lecture; 24-27 laboratory.

Grading: Letter grade only.

Freehand sketching techniques for illustrating interiors in 3D. Includes perspective, shading, textures, and use of a variety of techniques and materials. Emphasis on quick presentation of ideas for designer or client. 1302.00

**17 Introduction to Lighting (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Basic principles of lighting and their application. Visual perception, properties of light and color, sources and luminaires, lighting design elements and techniques, and elementary calculations. Energy efficient lighting practices and applicable codes and regulations. Written and graphic design documents. 1302.00

**21 Space Planning (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Furniture layouts and space planning for residential and commercial interiors. 1302.00

**22 Interior Design Materials (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Materials and treatments used in interior design for commercial and residential installations, including new "green" resources. 1302.00

**25 Interior Design Management (2)****(CSU)**

Hours: 32-36 lecture.

Grading: Letter grade only.

Practical course in the special problems encountered in the interior design profession, including measuring and estimating materials, purchasing, client relationships, ethics, methods of compensation, contracts and business documents. 1302.00

**30 Advanced Design Studio (3.5)****(CSU)**

Hours: 48-54 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Prerequisite: Interior Design 16, 21, and 22.*

Advanced course integrating knowledge, problem solving, and visual and oral communication concerning furniture layouts, space planning, elevations, reflected ceilings, lighting, electrical plans and renderings, selection of interior components and materials, and estimates and scheduling for a residential and a commercial project. 1302.00

**427 CAD for Set and Interior Design (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Fashion Design 45 and basic familiarity with Macintosh or Windows computers.*

Computer aided design using professional software, such as AutoCAD, Rivit, Architectural Desktop, and ArchiCAD. Floor plans, furniture layouts, elevations, lighting plans, 3-D perspectives, and renderings. Use of various printers and plotters. 1302.00

**482 Industry Internship: Interior Design (1)****(Degree-applicable)**

Hours: 60 hours/term (unpaid) or 75 hours/term (paid) on-site work experience.

Grading: Letter grade only.

*Limitation on Enrollment: Consent of instructor is required prior to registration.**Prerequisite: Interior Design 16, 21, and 22.**Corequisite: Interior Design 30.*

Supervised industry internship in cooperation with private sector design, architectural, and product distribution firms. Provides students expanded, hands-on learning opportunities to apply knowledge and learn new skills, directly related to their program of study, outside of the classroom environment. Placement is arranged by/approved by the instructor. Participation requirements may vary with the job setting. 1302.00

**JOURNALISM (JOUR)****10 Newswriting (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Introduction to multimedia storytelling with a journalism emphasis. Explored techniques include use of video, photos, audio, animation, and text to convey interactive news and feature stories through the Internet and other electronic media. Course also covers techniques in digital research, critical thinking, and synthesis. Principles of writing news stories with emphasis on selecting and organizing information in a clear, accurate, coherent, and concise manner. Fundamentals of correct grammar and spelling are stressed, as well as news copy preparation and format. Examination of the legal and ethical issues facing journalists. Students will report and write based on their original interviews and research to provide news content. Experiences may include covering speeches, meetings and other events, writing under deadline, and use of AP style. 0602.00

(C-ID JOUR 110)

**11 Multimedia Reporting (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.**Advisory: Completion of Journalism 10.*

Principles and practice in multimedia storytelling with a journalism emphasis. Using digital research, critical thinking, and synthesis students explore video, photos, audio, animation, and text to convey interactive news and feature stories through the Internet and other electronic media. 0602.00

(C-ID JOUR 120)

**30 Student Media Practicum I (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

*Prerequisite: Eligibility for English 475 or higher level English as determined by the Chaffey assessment process, or completion of English 575.*

Student media practicum that includes a lab and regularly produces a news or feature non-fiction product with a journalism emphasis by and for students and distributed to a campus or community audience. Must include weekly news assignments. May include a variety of student media across multiple platforms, including print, broadcast, and online. Includes practical experience in design/layout, visual, online, multimedia journalism and emerging technologies. Must be student produced with student leadership. 0602.00

(C-ID JOUR 130)

**31 Student Media Practicum II (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

*Prerequisite: Journalism 30.*

This course requires higher skill level and/or leadership/management involvement than JOUR 30. Intermediate student media practicum that includes a lab and regularly produces a news or feature non-fiction product with a journalism emphasis by and for students and distributed to a campus or community audience. Must include weekly news assignments. May include a variety of student media across multiple platforms, including print, broadcast, and online. Includes practical experience in design/layout, visual, online, multimedia journalism, emerging technologies and leadership/management. Must be student produced with student leadership. 0602.00

(C-ID JOUR 131)

**98A-H Independent Study: Journalism (1,2,3)****(CSU credit limitations)**

Grading: Letter grade only.

*Limitation on Enrollment: Instructor signature is required for registration.**Advisory: Prior journalism coursework is recommended.*

Special project course designed for the capable, well-motivated student with previous coursework in the discipline. Student explores and develops a project or paper on an area of personal interest in journalism. Nature and extent of the project must be decided by both the student and instructor before the student registers, since the scope of the project determines the number of units awarded. 0602.00

**KINESIOLOGY: ACTIVITY (KINACT)****1 Beginning Tennis (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Emphasis on court etiquette, history, and fundamental skills for tennis including singles and doubles play, so that students may participate in a lifetime activity. Fundamental instruction includes serving, forehand, backhand, volley shots, and game strategy. 0835.10

**2 Advanced Tennis (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Course emphasizes rules, court etiquette, history, and advanced skills of tennis. 0835.10

**9 Swimming (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Basic skills and safety precautions for swimming. Several different strokes are taught according to skill levels. 0835.10

**16 Volleyball (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Course emphasizes rules, strategy, and basic volleyball skill development such as setting, digging, serving, spiking and team strategies. 0835.10

**17 Advanced Volleyball (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Previous volleyball experience is recommended.*

Advanced volleyball skills with emphasis on strategy, skills, and complex offensive and defensive schemes. 0835.10

**20 Basketball (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Rules, court etiquette, basic offensive and defensive positions, and basic passing and dribbling techniques of basketball. 0835.10

**22 Soccer (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Introduction to the game of soccer, with emphasis on information and practice in the skills of kicking, trapping, shooting, passing, rules, and basic tactics. Class is suitable for both beginners and students who have played soccer. 0835.10

**23 Intermediate Soccer (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Kinesiology: Activity 22.*

Designed for players with basic soccer playing skills and understanding of the game, who wish to improve their playing abilities. Topics include heading drills, systems of play, ball control skills, and advanced defense and offense tactics. 0835.10

**24 Low Impact Aerobics (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

High energy aerobic exercises to improve overall cardiovascular fitness including muscle strength and endurance, flexibility, and body composition. The use of step benches, medicine balls, hand weights, and flex bands along with discussions of health related topics. 0835.10

**25 Spinning for Fitness (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Use of indoor cycling bikes for improving overall physical fitness and health. Students develop a safe and efficient spinning program designed to meet their fitness goals. Suitable for both genders and all fitness levels. 0835.10

**28 Yoga (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Breath, postures, and relaxation techniques to improve health and fitness levels of the mind and body. Emphasis on gaining flexibility, muscle strength, endurance, and coordination through the physical postures. Relaxation techniques incorporated for stress reduction and mental calm. 0835.10

**29A Beginning Body Conditioning (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Course is designed to teach the student basic exercises for the development of the major muscle groups. Emphasis is placed on muscular strength, endurance and flexibility. 0835.10

**29B Intermediate Body Conditioning (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Kinesiology: Activity 29A.*

Course is designed to teach the student intermediate exercises for the development of the major muscle groups. Emphasis is placed on muscular strength, endurance, flexibility and plyometrics. The student is introduced to interval training and plyometrics. 0835.10

**29C Advanced Body Conditioning (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Kinesiology: Activity 29B.*

Course is designed to teach the student advanced exercises for the development of the major muscle groups. Emphasis is placed on muscular strength, endurance, flexibility, plyometrics, and Olympic strength training. 0835.10

**31 Introduction to Self-Defense and Personal Safety (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Beginning and foundation course in personal safety. Basic martial arts techniques for self-defense. Material covers safety and defense in a technical and practical framework. Focus on normal life and violence in society. 0835.10

**35 Cardio Fitness for Life (1)****(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

Walking or running for physical health, muscular strength, fitness, weight control, and general well-being. Students develop a personalized fitness program with the assistance of the instructor, allowing them to work at their own pace. Focus includes both cardiovascular efficiency and muscular strength. Suitable for all ages and fitness levels. 0835.10

## KINESIOLOGY: LECTURE (KINLEC)

### 2 Introduction to Athletic Training (3)

(CSU; UC)

Hours: 40-45 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Advisory: Possession of current first-aid and cardiopulmonary resuscitation cards.*

Concepts of prevention, recognition, emergency care, evaluation, management, treatment and rehabilitation and reconditioning resulting from physical activity and athletics. Legal and ethical issues, professionalism, organization and administration of a sports medicine facility. Course is intended for students interested in pursuing careers as Athletic Trainers and/or Coaches. 0835.00

### 11 Theory and Analysis of Football (2)

(CSU)

Hours: 32-36 lecture.

Grading: Letter grade only.

Comprehensive video review of football techniques by football coaches. Video tape from four-year colleges, community colleges, and high schools will be reviewed and analyzed. For physical education majors who want to coach football. 0835.60

### 13 Professional Activities: Coaching Team Sports (3) [Cx]

(CSU; UC credit limitations)

Hours: 48-54 lecture.

Grading: Letter grade only.

Information and experience for prospective players, coaches, and teachers. Introduction to the physical, mental, and emotional aspects of playing and coaching competitive sports. 0835.60

### 14 Lifeguard Training (3) [Cx]

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Students must be able to: (a) Swim 300 yards continuously, and (b) Starting in the water, swim 20 yards using front crawl or breaststroke, surface dive 7-10 feet, retrieve a 10-pound object, return to the surface, swim 20 yards back to the starting point with the object, and exit the water without using a ladder or steps, all within 1 minute, 40 seconds.*

Designed primarily for special-interest groups responsible for preventing water accidents and making water rescues. Information and practice to develop functional water rescues and accident prevention required by lifeguard crews. Upon successful completion of this course, students receive the following certificates:

- American Red Cross Lifeguard Training
- American Red Cross Standard First Aid
- American Red Cross CPR for the Professional Rescuer

0835.70

### 15 Diet and Fitness (3)

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

A lifestyle approach to fitness, including the study of nutrition, disease prevention, increased cardiovascular endurance, increased strength, flexibility, stress management, and considerations of aging on the body. 0835.00

### 16 First Aid (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Theory and detailed demonstration of the first aid care of the injured. Students learn to assess a victim's condition and incorporate proper treatment. Standard first aid, CPR, and AED certification(s) are granted upon successful completion of requirements.

(C-ID KIN 101)

0835.00

### 17 First Aid and Emergency Response to Community Disasters (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Students should be able to work in confined spaces and in different positions (e.g. on the ground or the floor).*

Prepares the participant to make appropriate decisions in an emergency situation to help sustain life, reduce pain, and minimize the consequence of sudden injury or illness until more advanced medical help can arrive. Course covers triage; professional CPR for adult, child and infant; use of automated external defibrillators, OSHA guidelines for the isolation of blood-borne pathogens in the workplace; open/closed wounds; broken bones; drowning; childbirth; and spinal injuries. Those who successfully complete this course, will be awarded an American Red Cross certificate qualifying the holder to be entered into the National American Red Cross database and be called upon in the case of disasters. Holders of the certificate are also qualified to work at first aid stations at public events such as sporting events, concerts and parades. 0835.00

### 18 Introduction to Kinesiology (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to an interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology is discussed, along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.

(C-ID KIN 100)

0835.00

### 19 Practical Applications in Athletic Training I (2)

(CSU)

Hours: 8-9 lecture; 72-81 laboratory

Grading: Letter grade only.

*Prerequisite: Kinesiology: Lecture 2.*

Course provides first semester students with the opportunity to observe and learn the basic principles and protocols of athletic training during day-to-day sports activities in a supervised lab setting. Basic athletic training room and event observation with an emphasis on prevention, care, evaluation, treatment and rehabilitation for the lower extremities. Helps prepare students for transfer to a Commission on Accreditation of Athletic Training Education (CAATE) accredited athletic training program. 1228.00

### 21 Practical Applications in Athletic Training II (2)

(CSU)

Hours: 8-9 lecture; 72-81 laboratory

Grading: Letter grade only.

*Prerequisite: Kinesiology: Lecture 19.*

Course provides second semester students with the opportunity to observe and learn the basic principles and protocols of athletic training during day-to-day sports activities in a supervised lab setting. Basic athletic training room and event observation with an emphasis on prevention, care, evaluation, treatment, and rehabilitation for the upper extremities. This course will help the student prepare for transfer to a Commission on Accreditation of Athletic Training Education (CAATE) accredited athletic training program. This course is a continuation of PELEC 19. 1228.00

### 22 Practical Applications in Athletic Training III (2.5)

(CSU)

Hours: 8-9 lecture; 96-108 laboratory

Grading: Letter grade only.

*Prerequisite: Kinesiology: Lecture 21.*

Course provides third semester student with the opportunity to observe and learn the advanced principles and protocols of athletic training during day-to-day sports activities in a supervised lab setting. Advanced athletic training room and event observation with an emphasis on prevention, care, evaluation, treatment, and rehabilitation for the upper and lower extremities. This course will help the student prepare for transfer to a Commission on Accreditation of Athletic Training Education (CAATE) accredited athletic training program. This course is a continuation of PELEC 21. 1228.00

### 24 Biomechanics (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Biology 20.*

An introductory study of anatomical and mechanical analysis of motion as it pertains to exercise and sport. Students will study muscles, joints, bones, nerves and muscle analysis of movement patterns. 0835.20



**32 Outdoor Adventures (2)****(CSU; UC credit limitations)**

Hours: 16-18 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Comfort in an outdoors environment and good physical fitness are recommended for course success.*

Introduces the techniques of environmentally-sensitive backpacking, evaluation and selection of backpacking equipment, group planning, conditioning, back country safety and first aid, and survival information. Team work and leadership skills appropriate for the back country are introduced. Field trips are required. 0835.10

**KINESIOLOGY: TEAM (KINTM)****In-season (competition) intercollegiate Kinesiology: Team courses (KINTM-41 through 59) are open-entry activity.****Off-season (conditioning) intercollegiate Kinesiology: Team courses (KINTM-1 through 15, 27, and KINTM-61A-69) are structured/scheduled activity.****Students may take all KINTM courses (excluding KINTM-16, 18, and 19) up to four times, restricted to 175 hours of competition and 175 hours of conditioning per sport, per year.****1 Football Team Activity (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Information and practice in the development of football basic skills and techniques. Primarily intended for students who wish to compete in the sport of football. May be taken four times. 0835.50

**1A Football Team Activity (0.5)****(CSU)**

Hours: 24-27 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.**Advisory: Competitive football background is recommended.* Information and practice in the development of football basic skills and techniques. May be taken four times. 0835.50**2 Volleyball Team Activity, Women (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Designed for women interested in learning competitive volleyball and joining the women's intercollegiate team. May be taken four times. 0835.50

**3 Basketball Team Activity, Women (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Focus on history, conditioning, rules, and fundamental and advanced skills needed for competitive women's basketball. May be taken four times. 0835.50

**3A Basketball Team Activity, Women (0.5)****(CSU)**

Hours: 24-27 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.**Advisory: Competitive basketball background is recommended.* Focus on history, conditioning, rules, and fundamental skills needed for competitive women's basketball. May be taken four times. 0835.50**4 Softball Team Activity, Women (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Overall development of basic skills and knowledge needed for competitive women's softball play. May be taken four times. 0835.50

**5 Water Polo Team Activity, Men (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Rules, etiquette, history, and advanced skills of water polo, designed for the prospective men's water polo team participant. May be taken four times. 0835.50

**6 Basketball Team Activity, Men (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Designed for men interested in playing competitive men's basketball. May be taken four times. 0835.50

**6A Basketball Team Activity, Men (0.5)****(CSU)**

Hours: 24-27 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.**Advisory: Competitive basketball background is recommended.* Designed for men interested in playing competitive men's basketball. May be taken four times. 0835.50**7 Cross Country Team Activity, Men (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Provides training in skills, techniques, strategies, and conditioning for cross country runners. Designed for men interested in competitive cross country at the college level. May be taken four times. 0835.50

**8 Cross Country Team Activity, Women (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Provides training in skills, techniques, strategies, and conditioning for cross country runners. Designed for women interested in competitive cross country at the college level. May be taken four times. 0835.50

**9 Water Polo Team Activity, Women (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Rules, etiquette, history, and advanced skills of water polo. Course is designed for prospective women's water polo team participants. May be taken four times. 0835.50

**11 Swimming Team Activity, Men and Women (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout. Above average swimming ability is required.*

Rules and fundamental skills involved in competitive swimming strokes. Designed for students interested in competitive swimming. May be taken four times. 0835.50

**12 Track and Field Team Activity, Men (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Specific experience in track and field. Emphasis on fundamental theory and basic skills. Designed for men interested in competitive track and field events at the college level. May be taken four times. 0835.50

**13 Track and Field Team Activity, Women (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Specific experience in track and field. Emphasis on fundamental theory and advanced skills. Designed for women interested in competitive track and field events at the college level. May be taken four times. 0835.50

**14 Soccer Team Activity, Men (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Information and practice to develop basic soccer skills, techniques, and strategies. Designed for men interested in playing competitive soccer at the college level. May be taken four times. 0835.50

**15 Soccer Team Activity, Women (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Information and practice to develop basic soccer skills, techniques, and strategies. Designed for women interested in playing competitive soccer at the college level. May be taken four times. 0835.50

**16 Dance/Spirit Team (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Admission is by audition.**Advisory: Previous dance training is recommended.*

Development of performance skills, focusing on Hip Hop and Jazz style techniques. Course is for students who will represent the college at football and basketball games, national dance competitions, and community events. Emphasis on competition-level performance skills, as well as dance team protocol and etiquette. 0835.10

**18 Beginning Dance/Cheer Team (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Admission is by audition.**Advisory: Previous dance training is recommended.*

Beginning skills in cheer techniques, conditioning, jumping, and dance. Course is for students who will represent the college at athletic contests, national dance competitions, and community events. 0835.10

**19 Intermediate Dance/Cheer Team (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Admission is by audition.**Advisory: Previous dance training is recommended.*

Intermediate skills in cheer techniques, motivation and dance. Course is for students who will represent the college at athletic contests, national dance competitions, and community events. 0835.10

**27 Baseball Team Class, Men (2)****(CSU; UC credit limitations)**

Hours: 96-108 laboratory

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based on a successful tryout.*

Designed for men interested in playing competitive intercollegiate baseball. May be taken four times. 0835.50

**41 Intercollegiate Football (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Advanced skills for competing in football contests. Information and daily practice to develop a high level of proficiency in football skills and techniques. May be taken four times. 0835.50

**42 Intercollegiate Volleyball Team, Women (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for women to compete at the intercollegiate level in volleyball. May be taken four times. 0835.50

**44 Intercollegiate Softball Team, Women (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for women to compete at the intercollegiate level in softball. May be taken four times. 0835.50

**45 Intercollegiate Water Polo Team, Men (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Competitive intercollegiate water polo team involving skills and knowledge of all aspects of competitive play. May be taken four times. 0835.50

**47 Intercollegiate Baseball Team, Men (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for men to compete at the intercollegiate level in baseball. May be taken four times. 0835.50

**48 Intercollegiate Cross Country, Men (3)****(CSU)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for men to compete at the intercollegiate level in cross country. Advanced training techniques, strategies, and conditioning developed for successful participation. May be taken four times. 0835.50

**49 Intercollegiate Cross Country, Women (3)****(CSU)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for women to compete at the intercollegiate level in cross country. Advanced training techniques, strategies, and conditioning developed for successful participation. May be taken four times. 0835.50

**51 Intercollegiate Swimming Team, Men and Women (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for men and women to compete at the intercollegiate level in swimming. May be taken four times. 0835.50

**52 Intercollegiate Track and Field Team, Men (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for men to compete at the intercollegiate level in track and field events. May be taken four times. 0835.50

**53 Intercollegiate Track and Field Team, Women (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for women to compete at the intercollegiate level in track and field events. May be taken four times. 0835.50

**54 Intercollegiate Soccer Team, Men (3)****(CSU; UC credit limitations)**

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for men to compete at the intercollegiate level in soccer. May be taken four times. 0835.50

**55 Intercollegiate Soccer Team, Women (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for women to compete at the intercollegiate level in soccer. May be taken four times. 0835.50

**56A Intercollegiate Basketball Team, Women Fall (1.5)****(CSU; UC credit limitations)**

Hours: 87.5 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for women to compete at the intercollegiate level in basketball during the fall semester. Information and daily practice to develop a high level of proficiency in basketball skills and techniques during the pre-season and non-conference schedule. May be taken four times. 0835.50

**56B Intercollegiate Basketball Team, Women Spring (1.5)****(CSU; UC credit limitations)**

Hours: 87.5 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for women to compete at the intercollegiate level in basketball during the spring semester. Information and daily practice to develop a high level of proficiency in basketball skills and techniques during conference play and post-season schedule. May be taken four times. 0835.50

**57A Intercollegiate Basketball Team, Men Fall (1.5)****(CSU; UC credit limitations)**

Hours: 87.5 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for men to compete at the intercollegiate level in basketball during the fall semester. Information and daily practice to develop a high level of proficiency in basketball skills and techniques during the pre-season and non-conference schedule. May be taken four times. 0835.50

**57B Intercollegiate Basketball Team, Men Spring (1.5)****(CSU; UC credit limitations)**

Hours: 87.5 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Opportunity for men to compete at the intercollegiate level in basketball during the spring semester. Information and daily practice to develop a high level of proficiency in basketball skills and techniques during conference play and post-season schedule. May be taken four times. 0835.50

**59 Intercollegiate Water Polo Team, Women (3)****(CSU; UC credit limitations)**

Hours: 175 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is restricted to student athletes who meet both skill and eligibility requirements.*

Competitive intercollegiate women's water polo team, involving skills and knowledge of all aspects of competitive play. May be taken four times. 0835.50

**61A Basketball Strength and Conditioning for Athletes (0.5)****(CSU)**

Hours: 24-27 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Basketball Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for basketball athletes. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times. 0835.50

**62 Football Strength and Conditioning for Athletes (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Football Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for pre-season football athletes, necessary for proper conditioning. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times. 0835.50

**62A Football Strength and Conditioning for Athletes (0.5)****(CSU)**

Hours: 24-27 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Football Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for football athletes. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times. 0835.50

**64 Softball Strength and Conditioning for Athletes (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Softball Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for softball athletes. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times. 0835.50

**65 Water Polo Strength and Conditioning for Athletes (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Water Polo Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for water polo athletes. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times. 0835.50

**65A Water Polo Strength and Conditioning for Athletes (0.5)****(CSU)**

Hours: 24-27 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Water Polo Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for water polo athletes. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times. 0835.50

**66A Baseball Strength and Conditioning for Athletes (0.5)****(CSU)**

Hours: 24-27 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Baseball Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for baseball athletes. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times.

0835.50

**67A Swimming Strength and Conditioning for Athletes (0.5)****(CSU)**

Hours: 24-27 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Swimming Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for swimming athletes. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times.

0835.50

**68 Track/Field Strength and Conditioning for Athletes (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Track/Field Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for track/field athletes. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times.

0835.50

**69 Cross Country Strength and Conditioning for Athletes (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Concurrent or previous enrollment in any Cross Country Kinesiology: Team course.*

Advanced sport-specific drills and exercises designed for cross country athletes. Increased volume, intensity, frequency, and duration of specific activities improve strength, speed, flexibility, and overall conditioning, to enhance athletic performance. Exercises are prescribed by the instructor and are tailored to the physical demands of the sport and individuals' capabilities. May be taken four times.

0835.50

**MANAGEMENT (MGMT)**

(SEE BUSINESS AND BUSINESS: MANAGEMENT)

**MATHEMATICS (MATH)****3 Discrete Mathematics (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Mathematics 61, and Computer Science 1 or consent of Computer Science coordinator/instructor.*

Fundamental topics for computer science including logic, proof techniques, set theory, an introduction to computer programming, basic counting rules, relations, functions and recursion, graphs, and probability trees.

(C-ID COMP 152 and MATH 160)

1701.00

**4 Mathematical Concepts for Elementary School Teachers (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 25 as determined by the Chaffey assessment process, or completion of Mathematics 425.*

Study of mathematical concepts, targeted primarily to students preparing to teach elementary school mathematics. For such students, this course fulfills the same transfer requirement as MATH-25, College Algebra. Topics include: real number systems and sub-systems, patterns and sequences, basic set theory, logic, and mathematical induction. Emphasis is on comprehension of concepts and application of logical reasoning and critical analysis in problem-solving.

(C-ID MATH 120)

1701.00

**25 College Algebra (4)****(CSU; UC credit limitations)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 25 as determined by the Chaffey assessment process, or completion of Mathematics 425.*

Coordinate geometry and graphing techniques; conic sections; solutions to higher degree polynomial equations; functions; polynomial, rational, inverse, exponential and logarithmic functions; systems of nonlinear equations and inequalities; matrices and determinants; sequences and series; binomial expansion; mathematical induction; and introduction to mathematical proof.

1701.00

**31 Plane Trigonometry (4)****(CSU)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Mathematics 25.**Advisory: Completion of 1 year of high school geometry.*

Trigonometric functions including definitions of the circular functions. Radian measure, graphs, inverse trigonometric functions, trigonometric equations and identities, solution of right and oblique triangles, applications, vectors, complex numbers, polar coordinates and graphs, equation of conics, and rotation of axes. Students may be required to obtain a graphing utility calculator for the course.

1701.00

**60 Calculus for Business (4) [Cx]****(CSU; UC credit limitations)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 31 as determined by the Chaffey assessment process, or completion of Mathematics 25.*

Techniques of calculus as applied to problem solving in business and economics. Topics include: limits, continuity, differentiation and integration in one and several dimensions, optimization, and transcendental functions.

(C-ID MATH 140)

1701.00

**61 Pre-Calculus (4) [Cx]****(CSU; UC credit limitations)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 61 as determined by the Chaffey assessment process, or completion of Mathematics 25 and 31.*

Further studies in algebra and trigonometry for students intending to take calculus. Polynomial equations, functions and inverses, factoring techniques, nonlinear inequalities including absolute values, partial fractions, introduction to limits, graphing polynomial and rational functions, conic sections, trigonometric functions and their inverses, parametric equations, exponential and logarithmic functions, polar coordinates, and vectors. Trigonometric concepts emphasized as needed for calculus, including identities, equations, and applications. A graphing calculator is required; students should see instructor for specifics, since CAS-based calculators may be prohibited.

1701.00

**65A Calculus I (4) [Cx]****(CSU; UC credit limitations)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Mathematics 61.*

Functions, limits, and continuity; differentiation of algebraic, trigonometric, logarithmic, and exponential functions with applications; integration of algebraic, trigonometric, logarithmic, and exponential functions; and the definite integral and some applications, including rectilinear motion and average value. Students may be required to obtain a graphing utility for the course.

(C-ID MATH 211)

1701.00



**65B Calculus II (4) [Cx]****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Mathematics 65A.*

Applications of the definite integral including area, volume, arc length, surfaces of revolution, work, and centroids of planar regions; differentiation and integration involving hyperbolic, inverse trigonometric and inverse hyperbolic functions; techniques of integration; indeterminate forms and improper integrals; infinite series; conic sections; polar coordinates and parametric equations. Students may be required to obtain a graphing utility for the course.

(C-ID MATH 221)

1701.00

**75 Calculus III (5) [Cx]****(CSU; UC)**

Hours: 80-90 lecture.

Grading: Letter grade only.

*Prerequisite: Mathematics 65B.*

Topics include: vectors; lines planes and surfaces in space; cylindrical and spherical coordinates; vector-valued functions; functions of several variables; differential calculus, including partial derivatives, chain rule, directional derivatives, gradients, implicit differential and extreme values; multiple integration; line integrals; surface integrals; Jacobians; vector theory; and theorems of Gauss, Green, and Stokes. Students may be required to obtain a graphing utility for the course.

(C-ID MATH 230)

1701.00

**81 Linear Algebra (4) [Cx]****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Mathematics 75.*

Course develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included.

(C-ID MATH 250)

1701.00

**85 Differential Equations (4) [Cx]****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Mathematics 75.**Advisory: Prior experience with a graphing calculator is needed.*

Methods of solving ordinary differential equations including existence of solution, series solutions and singular points. Laplace transforms and linear systems. Applications primarily in the physical sciences. A graphing utility is required; see instructor for specifics, since CAS-based calculators may be prohibited.

(C-ID MATH 240)

1701.00

**401 Mathematics for Health Science (1)****(Degree-applicable)**

Hours: 16-18 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 410 as determined by the Chaffey assessment process, or completion of Mathematics 520.*

Course is targeted to students applying for the Nursing A.D.N. program. Topics include: metric, apothecary, and household systems of measurement; system conversions; adult and child dosages; and calculations involving oral, intravenous, and intramuscular medication administrations.

1701.00

**410 Elementary Algebra (4)****(Degree-applicable)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 410 as determined by the Chaffey assessment process, or completion of Mathematics 520.*

Fundamental algebraic operations of addition, subtraction, multiplication, and division. Special products and factoring, rational expressions and their operations, solution and application of linear and rational equations, graphing of linear equations in two variables, solving linear systems of two equations and determining the equation of a line.

1701.00

**425 Intermediate Algebra (4)****(Degree-applicable)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 425 as determined by the Chaffey assessment process, or completion of Mathematics 410.*

Extends concepts from Elementary Algebra. Content includes polynomial, radical, absolute value, exponential and logarithmic expressions, equations, and functions; linear and non-linear systems of equations and inequalities; quadratic equations; graphing of nonlinear functions; complex numbers; nonlinear single-variable inequalities; conic sections; sequences; series; and the Binomial Theorem.

1701.00

**510 Arithmetic (4)****(Non-degree-applicable)**

Hours: 56-63 lecture and 24-27 laboratory.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 510 as determined by the Chaffey assessment process.*

Complete study of arithmetic, including operations and applications involving whole numbers, fractions, decimals, ratios, proportions, measurement, percents, and signed numbers. Four hours of supplemental learning in a Success Center that supports this course is required.

1701.00

**520 Pre-Algebra (4)****(Non-degree-applicable)**

Hours: 56-63 lecture and 24-27 laboratory.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 520 as determined by the Chaffey assessment process, or completion of Mathematics 510.*

For students preparing for elementary algebra. Topics include rational number arithmetic, order of operations, Pythagorean Theorem, variable expressions, solving linear equations, application problems, graphing linear equations, and polynomial operations.

1701.00

**605 Preparation for the Study of Pre-Algebra (0)****(Non-credit)**

Hours: 32-38 lecture.

Grading: Pass/No Pass grade only.

Mathematics Review for students whose assessment results indicate placement below Arithmetic/Pre-Algebra, and who wish to re-acquire the skills needed to re-assess into a higher level mathematics course. The course focuses on operations of whole numbers, rational numbers, decimal numbers and integers. Other topics include: ratios, proportions and measurement. May be taken twice.

1702.00

**610 Preparation for the Study of Algebra (0)****(Non-credit)**

Hours: 25-29 lecture.

Grading: Pass/No Pass grade only.

Mathematics review for students whose assessment results indicate placement into Arithmetic or PreAlgebra, and who wish to re-acquire the skills needed to re-assess into a higher level mathematics course. Course focuses on mastery of basic mathematics competencies, including addition/subtraction/multiplication/division, rounding, order of operations, fractions, decimals, ratios, percent, graphing and solving linear equations, exponents and polynomials, roots and radicals.

1702.00

**625 Preparation for the Study of College Algebra (0)****(Non-credit)**

Hours: 25-29 lecture.

Grading: Pass/No Pass grade only.

Mathematics review for students whose assessment results indicate placement into Elementary Algebra and Intermediate Algebra, and who wish to re-acquire the skills needed to re-assess into a higher level mathematics course. Course focuses on mastery of algebra competencies, including: linear equations, inequalities and systems; absolute value equations and inequalities; factoring; rational expressions; radical expressions; quadratic equations and inequalities; graphing of functions; composition and inverse of functions; complex numbers; and logarithmic and exponential expressions and equations.

1701.00

**MULTIMEDIA**

(SEE ART)

## MUSIC (MUSIC)

### 2A Music History and Literature (3) [Cx]

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Chronological survey of music in Western culture, encompassing the Medieval through Baroque periods. Origins of Western music up through the era of Johann Sebastian Bach and George Frideric Handel. 1004.00

### 2B Music History and Literature (3) [Cx]

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Chronological survey of music in Western culture, from 1750 to the present. Explores the music of the great composers of the Classical, Romantic, and 20th century eras. 1004.00

### 4 Music Appreciation (3) [Cx]

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

A survey of art music in western civilization. Topics studied include but are not limited to elements of music, basic musical forms, music periods, styles, and the role of music and musicians in the western world. (C-ID MUS 100) 1004.00

### 5 Music Theory and Musicianship I (4) [Cx]

(CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Advisory: Concurrent enrollment in Music 35.*

This course, through guided composition and analysis, incorporates the following concepts: rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; diatonic chords, basic cadential formulas and phrase structure; dominant seventh; figured bass symbols; and non-harmonic tones. Development of skills in handwritten notation is expected. Students explore the history and evolution of music notation and theory, as well as cultural influences thereon, through examination and analysis of historically and geographically diverse musical examples. In addition, this course applies and develops the rhythmic, melodic, and harmonic materials of the first semester of Music Theory through ear training, sight singing, analysis, and dictation. (C-ID MUS 120 and MUS 125) 1004.00

### 6 Music Theory and Musicianship II (4) [Cx]

(CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Music 5.*

*Advisory: Concurrent enrollment in Music 36.*

This course incorporates the concepts from Music Theory and Musicianship I. In addition, through guided composition and analysis, the course will include: an introduction to two-part counterpoint; voice leading involving four-part chorale writing; diatonic harmony; and an introduction to secondary/applied chords and modulation. Applies and develops the rhythmic, melodic, and harmonic materials of the second semester of music theory through ear training, sight singing, analysis, and dictation. Students continue to explore the history and evolution of music notation and theory, as well as cultural influences thereon, through examination and analysis of historically and geographically diverse musical examples. (C-ID MUS 130 and MUS 135) 1004.00

### 7 Music Theory and Musicianship III (4) [Cx]

(CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Music 6.*

*Advisory: Concurrent enrollment in Music 37.*

This course incorporates the concepts from Music 6, Music Theory and Musicianship II. In addition, through writing and analysis, the course will include introduction to chromatic harmony; secondary/applied chords; modulation; borrowed chords; and an introduction to Neapolitan and augmented-sixth chords. Applies and develops the rhythmic, melodic, and harmonic materials of the third semester of music theory through ear training, sight singing, analysis, and dictation. (C-ID MUS 140 and MUS 145) 1004.00

### 8 Music Theory and Musicianship IV (4) [Cx]

(CSU; UC)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Music 7.*

*Advisory: Concurrent enrollment in Music 38.*

This course incorporates the concepts from Music 7, Music Theory and Musicianship III. In addition, through writing and analysis, the course will include: post-Romantic techniques such as borrowed chords and modal mixture, chromatic mediants, Neapolitan and augmented-sixth chords, 9th, 11th and 13th chords, altered chords and dominants; and 20th century techniques such as: Impressionism, tone rows, set theory, pandiatonicism and polytonalism, meter and rhythm. Applies and develops the rhythmic, melodic, and harmonic materials of the fourth semester of music theory through ear training, sight singing, analysis, and dictation. (C-ID MUS 150 and MUS 155) 1004.00

### 10 Songwriting and Commercial Harmony (3)

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Music 6.*

Introduction to the application of commercial music theory and technology to the songwriter. Diatonic and non-diatonic harmony including the circle of fifths, extended and altered chords, basic chord substitution, slash chords, chord symbols, substitution and common chord progressions with direct application to commercial song forms. Introduction to operation and use of the drum machine, synthesizer and computer as related to class projects. 1004.00

### 15 Introduction to the Music Business (3)

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of the music industry, with emphasis on individual career options, roles, and responsibilities. Contracts, relationships, and interaction of song writing, publishing, copyright law, recording, broadcasting, managing, booking, licensing, and merchandising. 1005.00

### 16 Introduction to Recording Arts (3)

(Replaces Music 11)

(CSU)

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

Theory and application of contemporary recording concepts, techniques and equipment, utilizing modern technology and practice in the recording studio. 1005.00

### 17 Electronic Music (3)

(Formerly Music 12)

(CSU)

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

*Advisory: Some keyboard skill and/or experience with electronic components.*

Electronic sound production. Topics include: sound types, sound manipulation, sequencing, Musical Instrument Digital Interface (MIDI), and editing. 1004.00

### 18 Computer-Assisted Recording and Editing (3)

(Formerly Music 13)

(CSU)

Hours: 32-36 lecture; 48-54 laboratory

Grading: Letter grade only.

*Advisory: Completion of Music 16.*

Techniques and applications of recording and editing sound on personal computers. Hardware, software, editing for song, sound effects, and dialog for film. 1005.00

### 21 History of Jazz (3) [Cx]

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of the development of jazz from its origins in the Afro-American society, through the developmental periods of the various metropolitan areas, to the present-day eclectic style. Includes correlation with sociological influence. 1004.00

### 22 History and Survey of Rock Music (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of rock music styles covering their origins, development, and cultural impact. Designed to make students aware of the role of rock music in shaping our society. 1004.00

**26 World Music (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Music and music cultures around the world, focusing on their role(s) in those cultures. Extensive listening and musical vocabulary development to facilitate the discussion and interpretation of the music. Some performance expected. 1004.00

**35 Piano for Music Majors I (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

Development of the ability to read simple piano scores in the classical literature. Development of a keyboard sense from the standpoint of touch and sound. Major and minor scales, the use of primary chords and their inversions in harmonizing melodies. Some key transposition. 1004.00

**36 Piano for Music Majors II (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Advisory: Completion of Music 35.*

Second semester of piano for music majors further advances the development of the ability to read piano scores in the classical literature, the development of a keyboard sense from the standpoint of touch and sound, major and minor scales, the use of primary chords and their inversions in harmonizing melodies, and key transposition. 1004.00

**37 Intermediate Piano (1)****(CSU)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Advisory: Completion of Music 35.*

Piano literature of second and third levels focusing on differences in historical styles. Extensive sight reading, performance of all major and minor scales, chords, and arpeggios. Some analysis and melodic harmonization. 1004.00

**38 Studio Piano (1)****(CSU)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Advisory: Completion of Music 35 or audition with instructor's consent.*

Basic contemporary harmony and chording techniques. Performance of popular music in a variety of styles. Reading from lead sheets and construction of song arrangements. Approach to basic improvisation. 1004.00

**40 Beginning Guitar (1) [Cx]****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

Basic fundamentals which prepare the student for most styles of guitar playing. Emphasis on chording, right-hand technique, and melodic playing, as well as basic music reading. Student must provide own guitar for use in class. 1004.00

**41 Intermediate Guitar (1)****(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Advisory: Completion of Music 40 or the ability to sight-read in the first position.* Further exploration of guitar literature and the capabilities of the solo guitar. Student must provide own guitar for use in class. 1004.00

**58 Applied Music (0.5)****(CSU)**

Hours: 24-27 lab.

Grading: Letter grade only.

*Limitation on Enrollment: Audition is required.**Corequisite: MUSIC-75, 76, 77, or 78*

Individualized study of the appropriate techniques and repertoire for the specific instrument or voice being studied. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. May be taken four times. (C-ID MUS 160) 1004.00

**75 Concert Choir (1)***(replaces Music 34)***(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Audition is required during the first week of class to verify ability to match pitches, sing in tune, perform simple rhythms, and carry an assigned part independently.*

*Advisory: Previous choral experience is desirable.*

Study and performance of a wide variety of choral music, mostly accompanied with some a cappella. Primary focus is classical, with significant secondary focus on American vernacular and non-European repertoire. Some basic vocal and musical skills are required, but course emphasis is on the development of the ability to perform parts independently as well as key choral performance skills including phrasing, interpretation, diction, breathing, blend, and vocal control. Attendance at public performances is required. May be taken four times. (C-ID MUS 180) 1004.00

**76 Chamber Choir (1.5)***(formerly Music 33)***(CSU; UC)**

Hours: 72-81 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Audition is required first week of class to determine basic music reading ability, tonal memory, independence in carrying an assigned part, and ability to blend with other voices.*

*Advisory: Previous significant choral singing experience is desirable.*

Advanced study and performance of varied choral music, with a focus on a cappella art, folk, and popular music. Requires established vocal and musical skills, including basic music reading, vocal technique, and choral rehearsal practice. Attendance at public performances is required. May be taken four times. (C-ID MUS 180) 1004.00

**77 Community Concert Band (1)***(replaces Music 62)***(CSU)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Students may pre-register, but will be assessed by instructor on first day of class as to ability to play a musical instrument.*

Instrumental music group specializing in training and experience in a wide sampling of band repertoire, through rehearsals and performance. Students must provide their own instruments, although some larger instruments may be available through the Music Department. Attendance at on-campus end of semester concert in the theater is required. May be taken four times. (C-ID MUS 180) 1004.00

**78 Jazz Band (1)***(replaces Music 60)***(CSU; UC)**

Hours: 48-54 studio.

Grading: Letter grade only.

*Limitation on Enrollment: Intermediate to advanced proficiency on one's musical instrument, together with the ability to read music is required. Students may pre-register, but instructor will assess students' ability to play on the first day of class.*

*Audition on the following instruments: trumpet, trombone, saxophone, bass and bass guitar, keyboards, drums, guitar, and auxiliary percussion.*

Instrumental studio/performing group, emphasizing reading, improvisation and stylistic concepts as they apply to the intermediate/advanced player. In most instances, student is expected to supply his/her own instrument. Attendance at public performances is required. May be taken four times. (C-ID MUS 180) 1004.00

**98A,B,C Independent Study: Music (1, 2, 3)****(CSU credit limitations)**

Grading: Letter grade only.

*Limitation on Enrollment: Instructor signature is required for registration.*

Special project course designed for the capable, well-motivated student. Each student explores and develops a project or a paper on an area of personal interest in music. Nature and extent of the project must be decided by student and instructor before the student may sign up for the course. Type and extent of the project determines the number of units allowed. 1004.00

## NURSING: ACUTE CARE TECHNICIAN (NURACT)

Students must apply for admission into the Acute Care Technician program.  
See Programs of Study area for requirements.

Students enrolled in two corequisite-linked courses  
(i.e. Acute Care Technician 420 and 420L) will have the lower of the two  
grades earned assigned to both courses  
when either course grade is less than "C" or "CR".

### 420 Acute Care Technician (4) [Cx]

*(Degree-applicable)*

Hours: 64-72 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission into the Nursing: Acute Care Technician program, and possession of an active California Certified Nursing Assistant (CNA) certificate or coordinator approval of advanced placement status.*

*Corequisite: Nursing: Acute Care Technician 420L.*

Knowledge and skills that prepare the CNA to function effectively in acute care settings, including hospitals and sub-acute facilities. Students gain an overview of an acute care nursing assistant's responsibilities in these facilities, with emphasis on the successful communication techniques and appropriate patient care skills necessary for safe practice. Use of the body systems approach, with focus on the seven major body systems. Course is designed for CNAs wishing to qualify for work in hospital settings, and is required for students applying to the Chaffey Vocational Nursing program. 1230.30

### 420L Acute Care Technician Laboratory (2)

*(Degree-applicable)*

Hours: 96-108 laboratory.

Grading: Pass/No Pass grade only.

*Corequisite: Nursing: Acute Care Technician 420.*

Clinical application of the knowledge and skills required for the Certified Nursing Assistant (CNA) to function effectively in acute care settings. Under direct supervision student practice their communication techniques, and patient care skills as they relate to the seven bodily systems. Course is designed for CNAs wishing to qualify for work in hospital settings, and is required for students applying to the Chaffey Vocational Nursing program. 1230.30

### 450 Professional Development for the Acute Care Technician (1)

*(Degree-applicable)*

Hours: 16-18 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission into the Nursing: Acute Care Technician program, and possession of an active California Certified Nursing Assistant (CNA) certificate or coordinator approval of advanced placement status.*

*Advisory: Basic computer skills are recommended.*

Further development of the interpersonal and professional skills needed by entry-level healthcare providers in hospital settings. Topics include: review of the healthcare workforce, career ladder, and employment opportunities; role of the Acute Care Technician in the nursing process; time management and organizational strategies; test anxiety and successful test-taking tactics; critical thinking skills applied to case studies, math exercises and role-play; and career professionalism issues. 1230.30

## NURSING: ASSISTANT (NURAST)

Students must apply for admission into the Nursing Assistant program.  
See Programs of Study area for requirements.

Students enrolled in two corequisite-linked courses  
(i.e. Nursing Assistant 400 and 400L) will have the lower of the two grades  
earned assigned to both courses when either course grade is  
less than a "C" or "CR".

### 400 Nursing Assistant (3.5)

*(Degree-applicable)*

Hours: 56-63 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission into the Nursing Assistant program.*

*Corequisite: Nursing Assistant 400L and 405.*

Fundamental principles of basic nursing care necessary to meet the hygiene, comfort, and safety needs of clients, including the prevention, identification and reporting of suspected patient abuse. Focus on developing communicative skills and effective interpersonal relations with clients, families, and fellow health care team members. Course follows the guidelines established by the California Department of Health Services. 1230.30

### 400L Nursing Assistant Laboratory (2)

*(Degree-applicable)*

Hours: 96-108 laboratory.

Grading: Pass/No Pass grade only.

*Corequisite: Nursing Assistant 400 and 405.*

Clinical application of the basic nursing care required to provide for the hygiene, comfort, and safety needs of clients in long-term health care settings. Focus on roles and responsibilities, knowledge of and adherence to federal and state regulations, demonstration of nursing skills, and practice in effective communications. 1230.30

### 405 Nursing Assistant Skills Laboratory (0.5)

*(Degree-applicable)*

Hours: 24-27 laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Admission into the Nursing Assistant program.*

*Corequisite: Nursing Assistant 400 and 400L.*

Demonstration and student practice of the twenty-eight core skills requiring mastery, in preparation for the state competency evaluation for the California Department of Public Health Services (CDPH) Certified Nurse Assistant (CNA) exam. 1230.30

### 420 Home Health Aide (1.5)

*(Degree-applicable)*

Hours: 24-27 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission into the Nursing Assistant program, and possession of an active California Certified Nursing Assistant (CNA) certificate.*

*Corequisite: Nursing Assistant 420L.*

Role of the home health aide in providing personal client care in assisted living and home care settings. Topics include: interpretation of medical and social needs of patients, preparation of nutritionally-appropriate meals, assistance with the administration of medication, provision of personal care and cleaning tasks in patient's homes, and client care status reporting procedures. Course is based on model curriculum developed by the Department of Health Services. 1230.80

### 420L Home Health Aide Laboratory (1)

*(Degree-applicable)*

Hours: 48-54 laboratory.

Grading: Pass/No Pass grade only.

*Corequisite: Nursing Assistant 420.*

Clinical application of the care functions required to meet the physical, medical, and social needs of home-care and assisted living clients. Demonstration and practice in providing personal care, preparing food, administering medications, performing basic cleaning of clients' living environments, and assessing and reporting client status. 1230.80

### 450 Professional Development for the Nursing Assistant (1)

*(Degree-applicable)*

Hours: 16-18 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission into the Nursing Assistant program.*

*Advisory: Basic computer skills are recommended.*

Development of the interpersonal and professional skills needed by entry-level healthcare providers joining the workforce. Topics include: overview of the healthcare workforce and career ladder, the role of the CNA in the nursing process, critical thinking skills, employment opportunities, résumé preparation, and job interview techniques. 1230.30



## NURSING: ASSOCIATE DEGREE (NURADN)

**Students must apply for admission into the Nursing (A.D.N.) program.  
See the Programs of Study for information on entrance requirements.**

**Students enrolled in two corequisite-linked courses  
(i.e. Nursing A.D.N. 3 and 3L) will have the lower of the two grades earned  
assigned to both courses when either course grade is less than satisfactory.  
A minimum grade of "C" in the lecture course and "CR" in the lab course is  
required to advance in the Nursing A.D.N. program.**

### 3 Transition in Nursing (1.5) [Cx] (CSU)

Hours: 24-27 lecture.  
Grading: Letter grade only.  
*Limitation on Enrollment: Must be a graduate of a Vocational Nursing School with an active LVN license, and have at least one year of work experience as a LVN in a clinical health care setting.*  
*Corequisite: Nursing A.D.N. 3L.*  
Core curriculum of the Associate Degree in Nursing Program, including theories of Maslow and Erickson. Development of critical thinking skills. Utilization of the nursing process, therapeutic communications and skills in client care. 1230.10

### 3L Transition in Nursing Laboratory (0.5) [Cx] (CSU)

Hours: 24-27 laboratory.  
Grading: Pass/No Pass grade only.  
*Limitation on Enrollment: Must be a graduate of a Vocational Nursing School with an active LVN license, and have at least one year of work experience as a LVN in a clinical health care setting.*  
*Corequisite: Nursing A.D.N. 3.*  
Application of basic nursing skills in the nursing-skills lab. 1230.10

### 6 Clinical Nursing Skills (1.5) [Cx] (CSU)

Hours: 72-81 laboratory.  
Grading: Letter grade only.  
*Limitation on Enrollment: Admission to the Nursing A.D.N. program.*  
Development of the essential components of client care, enabling the practice of safe and effective nursing. 1230.10

### 12 Nursing Process I (3) [Cx] (Being replaced by Nursing A.D.N. 14) (CSU)

Hours: 48-54 lecture.  
Grading: Letter grade only.  
*Limitation on Enrollment: Admission into the Nursing A.D.N. Program*  
*Corequisite: Nursing A.D.N. 12L.*  
Utilization of the nursing process in providing basic care for adult and geriatric clients and their families. Development of beginning client-centered communication, interpersonal relationships, and critical thinking skills. 1230.10

### 12L Nursing Process I Laboratory (3.5) [Cx] (Being replaced by Nursing A.D.N. 14L) (CSU)

Hours: 168-189 laboratory.  
Grading: Pass/No Pass grade only.  
*Corequisite: Nursing A.D.N. 12.*  
Clinical application of the nursing process in providing basic care for adult and geriatric clients and their families. Application of beginning client-centered communication, interpersonal relationships, and critical thinking skills. Clinical application at long-term care and medical-surgical facilities. 1230.10

### 13 Mental Health and Psychiatric Nursing (2) [Cx] (CSU)

Hours: 32-36 lecture.  
Grading: Letter grade only.  
*Limitation of Enrollment: Admission into the Nursing A.D.N. Program.*  
*Corequisite: Nursing A.D.N. 13L.*  
Mental health and psychiatric illness across the life span. Application of client-centered communication and critical thinking skills. 1230.10

### 13L Mental Health and Psychiatric Nursing Laboratory (1) [Cx] (CSU)

Hours: 48-54 laboratory.  
Grading: Pass/No Pass grade only.  
*Corequisite: Nursing A.D.N. 13.*  
Clinical application of psychiatric nursing. Performance of client-centered communication and critical thinking skills at psychiatric and community health facilities. 1230.10

### 14 Nursing Process 1 (4) [Cx] (Replaces Nursing A.D.N. 12) (CSU)

Hours: 64-72 lecture.  
Grading: Letter grade only.  
*Limitation on Enrollment: Admission into the Nursing A.D.N. Program.*  
*Corequisite: Nursing A.D.N. 14L.*  
Utilization of the nursing process in providing basic care for adult and geriatric clients and families. Development of beginning client-centered communication, interpersonal relationships, and critical thinking skills. 1230.10

### 14L Nursing Process 1 Laboratory (3.5) [Cx] (Formerly Nursing A.D.N. 12L) (CSU)

Hours: 168-189 laboratory.  
Grading: Pass/No Pass grade only.  
*Limitation on Enrollment: Admission into the Nursing A.D.N. Program.*  
*Corequisite: Nursing A.D.N. 14.*  
Clinical application of the nursing process in providing basic care for adult and geriatric clients and their families. Application of beginning client-centered communication, interpersonal relationships, and critical thinking skills. Clinical application at long-term care and medical-surgical facilities. 1230.10

### 25 Nursing Process II (3) [Cx] (Being replaced by Nursing A.D.N. 27) (CSU)

Hours: 48-54 lecture.  
Grading: Letter grade only.  
*Prerequisite: Nursing A.D.N. 12.*  
*Corequisite: Nursing A.D.N. 25L.*  
Nursing care of adults in the hospital environment. Use of the nursing process and critical thinking skills in medical/surgical units. 1230.10

### 25L Nursing Process II Laboratory (3) [Cx] (Being replaced by Nursing A.D.N. 27L) (CSU)

Hours: 144-162 laboratory.  
Grading: Pass/No Pass grade only.  
*Prerequisite: Nursing A.D.N. 12 and 12L.*  
*Corequisite: Nursing A.D.N. 25.*  
Nursing care of adults in the hospital environment. Use of the nursing process and critical thinking skills in medical/surgical units. 1230.10

### 26 Maternal-Newborn Nursing (2) [Cx] (CSU)

Hours: 32-36 lecture.  
Grading: Letter grade only.  
*Limitation on Enrollment: Admission into the Nursing A.D.N. Program.*  
*Corequisite: Nursing A.D.N. 26L.*  
Nursing care of the child-bearing family. Use of the nursing process and critical thinking skills in perinatology and ambulatory settings, and in selected community agencies. 1230.10

### 26L Maternal-Newborn Nursing Laboratory (1.5) [Cx] (CSU)

Hours: 72-81 laboratory.  
Grading: Pass/No Pass grade only.  
*Corequisite: Nursing A.D.N. 26.*  
Clinical application of maternal-newborn concepts in ambulatory, hospital, and home care settings. 1230.10

**27 Nursing Process 2 (4) [Cx]***(Replaces Nursing A.D.N. 25)***(CSU)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Nursing A.D.N. 14 and 14L**Corequisite: Nursing A.D.N. 27L*

Nursing care of adults in the hospital environment. Use of the nursing process and critical thinking skills in medical surgical units. 1230.10

**27L Nursing Process 2 Laboratory (3) [Cx]***(Formerly Nursing A.D.N. 25L)***(CSU)**

Hours: 144-162 laboratory.

Grading: Pass/No Pass grade only.

*Prerequisite: Nursing A.D.N. 14.**Corequisite: Nursing A.D.N. 27.*

Nursing care of adults in the hospital environment. Use of the nursing process and critical thinking skills in medical/surgical units. 1230.10

**34 Nursing Process 3 (4) [Cx]****(CSU)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Nursing A.D.N. 27 and 27L, or Nursing A.D.N. 3 and 3L.**Corequisite: Nursing A.D.N. 34L.*

Utilization of the nursing process and management of care for the gerontological, acute, and chronically ill individuals/family. 1230.10

**34L Nursing Process 3 Laboratory (3) [Cx]****(CSU)**

Hours: 144-162 laboratory.

Grading: Pass/No Pass grade only.

*Corequisite: Nursing A.D.N. 34.*

Management of care for the gerontological, acute, and chronically ill individuals and their families. 1230.10

**38 Family-Child Nursing (2) [Cx]****(CSU)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission into the Nursing A.D.N Program.**Corequisite: Nursing A.D.N. 38L.*

Nursing care of infants, children, and adolescents. Use of the nursing process and critical thinking skills in pediatric units and selected community agencies. 1230.10

**38L Family-Child Nursing Laboratory (1.5) [Cx]****(CSU)**

Hours: 72-81 laboratory.

Grading: Pass/No Pass grade only.

*Corequisite: Nursing A.D.N. 38.*

Clinical application in the nursing care of infants, children, and adolescents in ambulatory, hospital, and community settings. 1230.10

**44 Nursing Process IV (4.5) [Cx]***(Being replaced by Nursing A.D.N. 45)***(CSU)**

Hours: 72-81 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission into the Nursing A.D.N Program.**Corequisite: Nursing A.D.N. 44L.*

Nursing management of critically ill clients, family, and groups of clients in high acuity medical surgical and community health settings. 1230.10

**44L Nursing Process IV Laboratory (5) [Cx]***(Being replaced by Nursing A.D.N. 45L)***(CSU)**

Hours: 240-270 laboratory.

Grading: Pass/No Pass grade only.

*Corequisite: Nursing A.D.N. 44.*

Clinical application in the nursing management of critically ill clients, family, and groups of clients in high acuity medical surgical and community health settings. 1230.10

**45 Nursing Process 4 (4) [Cx]***(Replaces Nursing A.D.N. 44)***(CSU)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Corequisite: Nursing A.D.N. 45L*

Nursing management of critically ill clients, family, and groups of client in high acuity medical surgical and community health settings. 1230.10

**45L Nursing Process 4 Laboratory (3.5) [Cx]***(Replaces Nursing A.D.N. 44L)***(CSU)**

Hours: 168-189 laboratory.

Grading: Pass/No Pass grade only.

*Corequisite: Nursing A.D.N. 45.*

Clinical application in the nursing management of critically ill clients, family, and groups of clients in high acuity medical surgical and community health settings. 1230.10

**50 Professional Issues in Nursing (1) [Cx]****(CSU)**

Hours: 16-18 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission into the Nursing A.D.N. Program.*

Historical contributions, ethics, current health care delivery systems, quality assurance, expanded role of the nurse, political action, continuing education, and health care reform. 1230.10

**403 Pathophysiology for Nursing (3) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission into a nursing (A.D.N. or V.N.) program or equivalent.**Advisory: Completion of Biology 22.*

Mechanisms of disease processes, the resultant structural and functional changes, and the effects of these dysfunctional changes on the body as they relate to nursing practice. The use of the Nursing Process in prevention, evaluation and treatment of disease outcomes within the scope of nursing practice. 1230.10

**404 Basic ECG and Dysrhythmia Interpretation (2) [Cx]****(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

Study of basic electrocardiogram (ECG) waveforms in relation to atrial, junctional and ventricular dysrhythmias. Designed to assist health care workers or those interested in health care with recognition and treatment of basic cardiac dysrhythmias. 1230.00

**428 Basic Pharmacology (3) [Cx]****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Student must be in good standing in the Chaffey A.D.N. or V.N. program, or another California accredited A.D.N. or V.N. program, or be a California licensed health care provider, or student must obtain permission of the nursing program coordinator.*

Basic concepts of pharmacology with emphasis on the role of the nurse in drug administration. Drugs affecting body systems; drugs used in neoplastic diseases, infectious diseases and in skin disorders; immunologic agents, diagnostic agents, toxicology, fluids and electrolytes, and vitamins. Principles and factors for managing medication regimen in a home setting. Course is recommended for students enrolled in a nursing program and as Continuing Education credit for RN's and LVN's, BRN #00426. 1230.00

**550 Health Science Skills Development I (1)****(Non-degree-applicable)**

Hours: 48-54 self-paced laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Students must be enrolled in the Nursing A.D.N. program.*

Application of appropriate health science skills in a simulated laboratory setting. Skills taught correspond to skills levels in current health science program. 1230.00

**551 Health Science Skills Development II (1)****(Non-degree-applicable)**

Hours: 48-54 self-paced laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Students must be enrolled in the Nursing A.D.N. program.*

Use of computers to improve test taking skills, critical thinking skills, and technical skills in conjunction with current health science courses. 1230.00

**NURSING: VOCATIONAL (NURVN)**

**Students must apply for admission into the Vocational Nursing program. See the Programs of Study for information on entrance requirements.**

**Students enrolled in two corequisite-linked courses (i.e. Nursing: V.N. 403 and 403L) will have the lower of the two grades earned assigned to both courses when either course grade is less than a satisfactory. A minimum grade of "C" in the lecture course and "CR" in the lab course is required to advance in the Vocational Nursing program.**

**401 Foundations of Vocational Nursing Practice (2)****(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A, and eligibility for Mathematics 410 as determined by the Chaffey assessment process or completion of Mathematics 520.*

Examination of the health care delivery system and the role of the vocational nurse as a member of the health care team. Discussion of the history of nursing and the ethical and legal responsibilities of the vocational nurse. Introduction of the nursing process as a critical thinking tool. Examination of the impact of cultural diversity on vocational nursing practice. Introduction to the policies and expectations of the vocational nursing program and an exploration of strategies for successful program completion. 1230.20

**403 Fundamentals of Nursing (3) [Cx]****(Degree-applicable)**

Hours: 57 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program.**Corequisite: Nursing: Vocational 403L.*

Fundamental principles and techniques necessary for the beginning vocational nursing student to provide basic nursing care to patients. Leadership focus on the VN role, responsibilities, and skills in extended-care clinical and home settings. Students select and use appropriate components of the nursing process and Maslow's Hierarchy of Needs to promote health, hygiene, nutrition, rest/sleep, safety, relief of pain, and meet the mobility, bowel/bladder, respiratory, sexual, spiritual, psychosocial, and self-esteem needs of adult and geriatric patients. Study of loss/grief concepts, health and disease, stress adaptation, and therapeutic communication styles is included. Includes twelve hours of related pharmacology content. 1230.20

**403L Fundamentals of Nursing Laboratory (2)****(Degree-applicable)**

Hours: 108 laboratory.

Grading: Pass/No Pass grade only.

*Corequisite: Nursing: Vocational 403.*

Discussion, demonstration, and application of nursing theory, principles, and effective communication techniques. Using the nursing process and developmental theories as a framework, students provide care for adult and geriatric patients in home, acute, and extended-care clinical settings. Focus on medication administration and patient status reporting. 1230.20

**405 Beginning Medical-Surgical Nursing (4) [Cx]****(Degree-applicable)**

Hours: 72 lecture.

Grading: Letter grade only.

*Prerequisite: Nursing: Vocational 403 and 403L.**Corequisite: Nursing: Vocational 405L.*

Nursing care of adult patients in the hospital/clinical setting. Utilization of the nursing process as a framework for providing care to patients with musculoskeletal, genitourinary, integumentary, and gastrointestinal disorders. Includes twelve hours of related pharmacology content. 1230.20

**405L Beginning Medical-Surgical Nursing Laboratory (3)****(Degree-applicable)**

Hours: 158 laboratory.

Grading: Pass/No Pass grade only.

*Prerequisite: Nursing: Vocational 403 and 403L.**Corequisite: Nursing: Vocational 405.*

Discussion, demonstration, and application of the nursing process and developmental theory to the care of adult patients with diseases and disorders of the musculoskeletal, integumentary, genitourinary, and gastrointestinal systems in the clinical setting. 1230.20

**407A Beginning Nursing Skills/Clinical Simulation Laboratory (1)****(Degree-applicable)**

Hours: 48-54 laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program.*

Application of theoretical concepts to nursing skills performance in a skills laboratory setting. Participation in simulated clinical experiences using high-fidelity patient care simulators. Course focuses on the musculoskeletal, integumentary, gastrointestinal and genitourinary systems. 1230.20

**407B Intermediate Nursing Skills/Clinical Simulation Laboratory (1)****(Degree-applicable)**

Hours: 48-54 laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Acceptance into the second semester of the Vocational Nursing program.*

Application of theoretical concepts to nursing skills performance in a skills laboratory setting. Participation in simulated clinical experiences using high-fidelity patient care simulators. Course focuses on maternal/child health nursing and on the cardiac, respiratory and endocrine systems. 1230.20

**407C Advanced Nursing Skills/Clinical Simulation Laboratory (1)****(Degree-applicable)**

Hours: 48-54 laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Acceptance into the third semester of the Vocational Nursing program.*

Application of theoretical concepts to nursing skills performance in a skills laboratory setting. Participation in simulated clinical experiences using high-fidelity patient care simulators. Course focuses on emergency and trauma situations, and on diseases and disorders of the reproductive, hematologic and immune systems. 1230.20

**409 Intermediate Medical-Surgical Nursing (4) [Cx]****(Degree-applicable)**

Hours: 72 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the first semester VN curriculum or equivalent.**Prerequisite: Nursing: Vocational 405 and 405L.**Corequisite: Nursing: Vocational 409L.*

Discussion, demonstration, and application of the nursing process and developmental theory to the care of adult patients with diseases and disorders of the cardiac, respiratory, and endocrine systems. Includes 12 hours of related pharmacology content. 1230.20

**409L Intermediate Medical-Surgical Nursing Laboratory (3)****(Degree-applicable)**

Hours: 158 laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the first semester VN curriculum or equivalent.**Prerequisite: Nursing: Vocational 405 and 405L.**Corequisite: Nursing: Vocational 409.*

Nursing care of adult patients in the hospital/clinical setting. Utilization of the nursing process as a framework for providing care to patients with cardiac, respiratory, and endocrine disorders. 1230.20

**411 Advanced Medical-Surgical Nursing (7) [Cx]****(Degree-applicable)**

Hours: 126 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the second semester VN curriculum or equivalent.**Prerequisite: Nursing: Vocational 409 and 409L.**Corequisite: Nursing: Vocational 411L.*

Discussion, demonstration, and application of the nursing process and developmental theory to the care of adult patients with diseases and disorders of the reproductive, hematologic and immune systems. Emergency nursing and care of the patient with cancer is also emphasized. Includes 12 hours of related pharmacology content. 1230.20

**411L Advanced Medical-Surgical Nursing Laboratory (3)****(Degree-applicable)**

Hours: 162 laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the second semester VN curriculum or equivalent.**Prerequisite: Nursing: Vocational 409 and 409L.**Corequisite: Nursing: Vocational 411.*

Nursing care of adult patients in the hospital/clinical setting. Utilization of the nursing process as a framework for providing care to patients with reproductive, hematologic and immunologic disorders. Care of the patient with cancer, and of patients with emergency and traumatic disorders is also emphasized. 1230.20

**413 Leadership for the Vocational Nurse (3) [Cx]****(Degree-applicable)**

Hours: 54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the second semester VN curriculum or equivalent.**Corequisite: Nursing: Vocational 413L.*

Leadership skills, capabilities, and knowledge essential to the vocational nurse including roles and responsibilities, application of the nursing process to problem solving methods, and supervision and evaluation of the effectiveness and quality of care. Managerial traits, styles, roles, and models are explored. 1230.20

**413L Leadership for the Vocational Nurse Laboratory (2)****(Degree-applicable)**

Hours: 108 laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the second semester VN curriculum or equivalent.**Corequisite: Nursing: Vocational 413.*

Clinical application of leadership skills, capabilities, and knowledge essential to the vocational nurse including roles and responsibilities, application of the nursing process to problem solving methods, and supervision and evaluation of the effectiveness and quality of care. 1230.20

**415A Growth/Development: Psychology Adult-Geriatric (1) [Cx]****(Degree-applicable)**

Hours: 18 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program.*

Stages of growth and development, behavior, and characteristics of the adult and elderly. Influences of and differences between the theories of Freud, Erikson, Piaget, Kohlberg, and Maslow. Theories and perspectives of mental health nursing. 1230.20

**415B Growth and Development of the Child (1) [Cx]****(Degree-applicable)**

Hours: 18 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the first semester of the VN curriculum or equivalent.**Prerequisite: Nursing: Vocational 415A.*

Stages of growth and development, behavior, and characteristics of the child. Influences of and differences between the theories of Freud, Erikson, Piaget, Kohlberg, and Maslow. Theories and perspectives of mental health nursing as it relates to the care of children and adolescents. 1230.20

**417A Critical Thinking and the Nursing Process I (1) [Cx]****(Degree-applicable)**

Hours: 18 lecture.

Grading: Letter grade only.

*Advisory: Acceptance into the Vocational Nursing program.*

Increase effectiveness of everyday health care decision-making. Application of critical thinking skills in the health care setting. Introduction to care planning and utilization of the nursing process in clinical decision-making. 1230.20

**417B Critical Thinking and the Nursing Process II (1) [Cx]****(Degree-applicable)**

Hours: 18 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the first semester VN curriculum or equivalent.**Prerequisite: Nursing: Vocational 417A.*

Application of advanced critical thinking skills in the health care setting. Advanced concepts in the development of a plan of care and in clinical decision-making. 1230.20

**421 Maternal and Child Health Nursing (4) [Cx]****(Degree-applicable)**

Hours: 72 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the first semester of the VN curriculum or equivalent.**Corequisite: Nursing: Vocational 421L.*

Nursing care of mothers, newborns, and children in both health and illness, using Maslow's theory of human needs to guide the plan of care. 1230.20

**421L Maternal and Child Health Nursing Laboratory (2)****(Degree-applicable)**

Hours: 108 laboratory.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Acceptance into the Vocational Nursing program, and successful completion of the first semester of the VN curriculum or equivalent.**Corequisite: Nursing: Vocational 421.*

Nursing care of mothers, newborns, and children in the clinical setting, in both health and illness, using Maslow's theory of human needs to guide the plan of care. 1230.20

**500 NCLEX Review for VN Licensure Examination (2)****(Non-degree-applicable)**

Hours: 32-36 lecture.

Grading: Pass/No Pass grade only.

*Limitation on Enrollment: Proof of completion of an accredited vocational nursing program within the past 5 years, or completion of licensure application packets and 54 hours of pharmacology, or eligibility for licensure through work experience or education is required.*

Overview of common diseases with treatment modalities using the nursing process. Review of over 300 questions with rationale for answers. Test taking techniques and preparation for the computerized NCLEX examination. Taking this course does not guarantee passing of the NCLEX examination. 1230.20

**NUTRITION AND FOOD (NF)****5 Nutrition for Life (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Essentials of nutrition as they relate to diet, health and disease, risk-reduction, stress, and nutritional deficiencies. Topics include: developments and discoveries in the field of nutrition, nutrients essential for human health, disease consequence and prevention, eating disorders, obesity, dieting, nutritional fads and fallacies, vitamins and supplements, and changing nutritional needs across the lifespan. Use of sound consumer nutritional information in the development of an individual health plan. 1301.00



**11 Food Service Management Supervision (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Nutrition and Food 471.*

Aspects of food service management supervision. Role of the supervisor/manager in developing personnel programs and establishing workable labor-management relationships. Additional topics include: job descriptions, hiring practices, training procedures, advancement programs, and delegation of responsibility. 1307.10

**15 Nutrition I: The Science of Nutrition (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to the science of nutrition and its implications for human health. Topics include: essential macro- and micro-nutrients, basic dietary guidelines, evaluation of published nutritional information, and changing nutritional needs throughout the lifecycle. 1306.00

**19 Nutrition II: Modified Diets (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Nutrition and Food 15.*

The study of therapeutic diets and the principles of nutrition as related to special physical conditions. Screening and assessment techniques used by health care professionals. 1306.00

**22 Nutrition and the Active Person (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Introduction to sports nutrition as related to the nutritional needs of all individuals interested in physical fitness, from the serious athlete to the more leisurely active person. Topics include the study of basic nutrition, disease prevention, methods for increasing cardiovascular endurance, weight control, increasing strength and flexibility, and stress management through the components of diet and fitness. 1301.00

**27 Healthy Cooking (2)****(CSU)**

Hours: 32-36 lecture.

Grading: Letter grade only.

Techniques of planning and preparing nutritious foods, incorporating lower levels of fat, cholesterol, and sodium into meals. Emphasis is on healthy food selection as a lifestyle. 1301.00

**471 Dietetic Service Supervisor I (1)****(Degree-applicable)**

Hours: 16-18 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a negative tuberculosis test within the past 12 months is required.*

*Corequisite: Nutrition and Food 471L.*

Supervisory and management roles in the professional health care setting for first semester students. Topics include nutrition screening, nutritional status assessment of patients/clients with varying medical conditions, menu planning, purchasing, food production management, modified diets, health care management, supervision, and training. Sociocultural factors and individual differences of clients/patients/resident population are considered. 1306.20

**471L Dietetic Service Supervisor I: Supervised Clinical Laboratory (2)****(Degree-applicable)**

Hours: 96-108 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a negative tuberculosis test within the past 12 months is required.*

*Corequisite: Nutrition and Food 471.*

Practical experience in practice and live clinical situations for the first semester student. Application of dietetic principles and practices, communication skills, record keeping, patient/client screening and assessment, adherence to Federal and State regulations, and essential management functions. 1306.20

**472 Dietetic Service Supervisor II (1)****(Degree-applicable)**

Hours: 16-18 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a negative tuberculosis test within the past 12 months is required. Prerequisite: Nutrition and Food 471.*

*Corequisite: Nutrition and Food 472L.*

Supervisory and management roles in the professional health care setting for second semester students. Topics include menu planning, purchasing, food production management, health care management, supervision, and training. 1306.20

**472L Dietetic Service Supervisor II: Supervised Clinical Laboratory (2)****(Degree-applicable)**

Hours: 96-108 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Proof of a negative tuberculosis test within the past 12 months is required.*

*Corequisite: Nutrition and Food 472.*

Practical experience in practice and live clinical situations for the second semester student. Application of dietetic principles and practices, communication skills, record keeping, patient/client screening and assessment, adherence to Federal and State regulations, and essential management functions. 1306.20

**PHARMACY TECHNICIAN (PHARMT)****401 Pharmacology of the Body Systems I (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Students are required to attend a mandatory orientation session and submit a contact application to the program.*

Basic anatomy, physiology, and pharmacology related to drugs affecting the endocrine and gastrointestinal systems, neoplastic disorders, infectious diseases, immunological function, vitamin and mineral balance, and the eyes and ears. Emphasis is placed on related medical terms, trade/generic drug names, drug classifications and indications used in each body system. 1221.00

**402 Pharmacology of the Body Systems II (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Pharmacy Technician 401.*

Basic anatomy, physiology, and pharmacology related to drugs affecting the respiratory, genitourinary, musculoskeletal, integumentary, nervous and cardiovascular systems, and special senses. Emphasis is placed on related medical terms, trade/generic drug names, drug classifications and indications used in each body system. 1221.00

**403 Principles of Community Pharmacy Practice (1.5)****(Degree-applicable)**

Hours: 24-27 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Registration is restricted to students who have attended a mandatory orientation session and submitted a contact application to the program.*

Course provides students an overview of the community pharmacy setting, to include the role of a pharmacy technician and pharmacist in the community pharmacy practice setting, pharmacy law and ethics, medical and pharmaceutical terminology, pharmaceutical dosage forms, drug development processes, drug classification systems, and an introduction to prescription reading and labeling. 1221.00

**404 Principles of Institutional Pharmacy Practice (1.5)****(Degree-applicable)**

Hours: 24-27 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Registration is restricted to students who have attended a mandatory orientation session and submitted a contact application to the program.*

Course introduces students to acute care, long-term care, and home-health care facilities, to include the role of a pharmacy technician and pharmacist in the institutional pharmacy practice setting, pharmaceutical care, the patient model, and the drug delivery process as they relate to these health care facilities. An introduction to dosage forms, routes of administration, medication order reading, and patient profiles is emphasized. 1221.00

**405 Sterile Products (2)****(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Registration is restricted to students who have attended a mandatory orientation session and submitted a contact application to the program.*

Basic concepts of aseptic techniques as they apply to the pharmacy technician. Focus on the use of laminar flow hoods and the proper handling and disposal of needles, syringes, and other supplies used in the preparation/compounding of sterile pharmacy products. Properties of antiseptics and antimicrobials used in maintenance of pharmacy equipment. Quality assurance processes and applicable governing laws, regulations, and standards, including <USP797>. 1221.00

**410 Over-The-Counter Products (2)****(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Registration is restricted to students who have attended a mandatory orientation session and submitted a contact application to the program.**Corequisite: Pharmacy Technician 421L.*

Course enables students to recognize the classifications and uses of the various over-the-counter (OTC) products utilized in modern health care. The drugs' mechanism of action, major indications, body systems affected, adverse effects, consumer precautions and contraindications are discussed. 1221.00

**415 Pharmaceutical Calculations (2)****(Degree-applicable)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Registration is restricted to students who have attended a mandatory orientation session and submitted a contact application to the program.**Prerequisite: Eligibility for Math 410 as determined by the Chaffey assessment process, or completion of Math 520.*

Basic and advanced calculations used in pharmacies. Practical application of metric, apothecary, avoirdupois, and household systems of measurements, including percent solution, allegations, reduction and enlargement of formulas, and ratio strength. Conversions between systems of pharmacy measurements; calculation of oral dosages for adult and pediatric patients, and calculations unique to intravenous medications. Preparation of outpatient and inpatient prescription orders using appropriate pharmacy calculations. 1221.00

**421 Community Pharmacy Operations (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Registration is restricted to students who have attended a mandatory orientation session and submitted a contact application to the program.**Corequisite: Pharmacy Technician 421L.*

Duties and responsibilities of the pharmacy technician working in an ambulatory setting. Emphasized topics include inventory receipt and control; prescription and medication orders screening; computerized prescription processing; medical insurance payment procedures; patient information confidentiality and relevant regulatory, legal, and ethical issues; extemporaneous compounding principles; over-the-counter drug indications and contraindications, and effective customer relations. 1221.00

**421L Community Pharmacy Operations Laboratory (1)****(Degree-applicable)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Registration is restricted to students who have attended a mandatory orientation session and submitted a contact application to the program.**Corequisite: Pharmacy Technician 421.*

Application and practice of the knowledge, concepts, and skills acquired in the corequisite course that are needed to operate effectively in an ambulatory setting. 1221.00

**431 Institutional Pharmacy Operations (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Registration is restricted to students who have attended a mandatory orientation session and submitted a contact application to the program.**Corequisite: Pharmacy Technician 431L.*

Duties and responsibilities of the pharmacy technician working in an institutional setting. Emphasized topics include aseptic technique, use and maintenance of laminar flow hoods, IV admixture and Total Parenteral Nutrition preparation, materials management, inpatient oral medication distribution systems, institutional organization and function, and relevant legal and ethical issues. Students develop the knowledge and skills required to work with pharmacists, other clinical staff, and patients. 1221.00

**431L Institutional Pharmacy Operations Laboratory (1)****(Degree-applicable)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Registration is restricted to students who have attended a mandatory orientation session and submitted a contact application to the program.**Corequisite: Pharmacy Technician 431.*

Application and practice of the knowledge, concepts, and skills acquired in the corequisite course that are needed to operate effectively in an institutional setting. 1221.00

**482 Clinical Externship (4)****(Degree-applicable)**

Hours: 240 hours unpaid on-site work experience.

Grading: Letter grade only.

*Limitation on Enrollment: Student must have completed all Pharmacy Technician coursework with "C" or better, pass a background check, and have a recent physical examination prior to placement in a clinical facility.*

Work experience in cooperation with local institutional (hospital, long-term care facility, etc.) and community (retail, chain drugstores, etc.) pharmacies. Students apply knowledge and skills through unpaid employment, solidifying knowledge and expanding capabilities acquired in classroom and clinical experiences. Placement is by the instructor. 1221.00

**PHILOSOPHY (PHIL)****70 Introduction to Philosophy (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Introductory study of questions and ideas pondered by philosophy's great thinkers. Topics include problems of knowledge (epistemology), the nature of reality (metaphysics), issues of values, aesthetics, religion (axiology), and social/political influences.

(C-ID PHIL 100)

1509.00

**72 Seminar in Ethics (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.**Advisory: Completion of Philosophy 70.*

Seminar for the study of ethics with emphasis on personal, social, and political values. May be offered as an Honors course.

(C-ID PHIL 120)

1509.00

**73 Seminar in Contemporary American Philosophy (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process or completion of English 475 or English as a Second Language 475.**Advisory: Completion of Philosophy 70.*

Study of the leading American thinkers in the areas of aesthetics, political and social theory, scientific thought, religious philosophy, and ethics. 1509.00

**75 Symbolic Logic (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.**Advisory: Completion of Philosophy 76.*

An introduction to symbolic methods of reasoning, covering sentential logic and predicate logic. Students translate ordinary language sentences and arguments into symbolic form and evaluate symbolized arguments using Truth Tables, Truth Trees and Natural Deduction.

(C-ID PHIL 210)

1509.00

**76 Critical Thinking (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: English 1A.*

Exploration of the underlying structure of argument and the role of sound reasoning in the investigation of claims. Analysis of inductive and deductive argument reasoning, distinction of fact from opinion and belief from knowledge, identification of formal and informal fallacies, and application of learned skills to realistic life problems.

1509.00

**77 History of Ancient Philosophy (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.**Advisory: Completion of Philosophy 70.*

Ancient philosophy with emphasis on the development of Greek philosophy from the Pre-Socratics through Aristotle, and may also include Hellenistic, Roman, medieval, or non-Western thinkers. May be offered as an Honors course.

(C-ID PHIL 130)

1509.00

**78 History of Philosophy: Modern (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.**Advisory: Completion of Philosophy 70 and 77.*

A survey of the major philosophers and ideas from Descartes to the 19th century, including Kant, Locke, Hume, Nietzsche, Kierkegaard, and others. May be offered as an Honors course.

(C-ID PHIL 140)

1509.00

**80 Introduction to Religion (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Exploration into the philosophies of religion and their intellectual, cultural, and personal expressions.

1510.00

**81 Introduction to Eastern Philosophy (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Survey of the philosophies and practices of Hinduism, Buddhism, Confucianism, and Taoism, and their influences in contemporary society.

1510.00

**82 Introduction to Monotheistic Religions: Judaism/ Christianity/ Islam (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

The origins and manifestations for the Jewish, Christian, and Muslim belief systems.

1510.00

**PHOTOGRAPHY (PHOTO)****1 History of Photography (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

History and appreciation of photography as a medium of artistic and social communication. May be offered as an Honors course.

1011.00

**7 Introduction to Digital Photography (4) [Cx]****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to the principles of digital photography. Topics include the development of technical and aesthetic skills, elements of design and composition, camera technology, materials and equipment, and contemporary trends in photography. Emphasis on issues in photography in the context of art, mass media, and media history, using digital cameras, software such as PhotoShop, and digital printing. Students must furnish an adjustable digital camera.

(C-ID ARTS 260)

1012.00

**9 Digital Imaging (4) [Cx]****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introductory course using computer imaging applications in photography and digital arts that explores the creative potential of imaging software used by visual artists. Students establish familiarity with output devices, hardware, and software such as Adobe Photoshop. The creation of digital art is examined within the framework of current issues in art and culture.

1012.00

**10 Beginning Photography (4) [Cx]****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to the principles of traditional photography, emphasizing the role of cameras and photographic images in art, mass media, and media history. Topics include the development of technical and aesthetic skills, elements of design and composition, camera technology, materials and equipment, and contemporary trends in photography. Instruction in the basic principles of black-and-white photography including darkroom experience. Students must furnish an adjustable non-digital camera.

(C-ID ARTS 260)

1012.00

**11 Intermediate Photography (4) [Cx]****(CSU)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Photography 10.*

Continuation of the principles learned in Photography 10 with more advanced film-based conceptual and technical approaches to contemporary photography. Student must furnish an adjustable camera.

1012.00

**12 Studio Lighting (4) [Cx]****(CSU)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Photography 7 or 10.*

Introduction to the use of studio equipment and lighting techniques. Topics include portrait, still life, advertising, and art photography. Students must furnish an adjustable camera.

1012.00

**13 Fine Art Photography (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Photography 10 or 7.*

Students explore photography as an art form. The focus will be on contemporary issues in art photography. Emphasis on students making photographic artwork.

1012.00

**20 Photography for Media (4) [Cx]**  
**(CSU)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Photography 7.*

Introduction to commercial publications and mediums that use photography to convey visual information, including photojournalism, sports, advertising, and editorials. Focus on the technical and aesthetic aspects of photo creation and the resultant communication impact. Student must supply an adjustable digital camera.

1012.00

**21 Public Relations Photography (2) [Cx]**  
**(CSU)**

Hours: 24-27 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Prerequisite: Photography 7 or 10.*

Theory and practice of photographing people and locations for commercial and promotional purposes. Selection and use of equipment, set-ups, lighting, directing, presentation, and simple business practices are explored. Students produce a portfolio of projects, and must supply an adjustable camera for use in the course.

1012.00

**50 Introduction to Color Photography (4)**  
**(CSU)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Photography 7.**Advisory: Completion of Photography 9*

Basic background in the aesthetics, history, theory, techniques, and materials of color photography. Students must furnish an adjustable digital camera.

1012.00

**408 Video for Photographers (4)****(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite(s): Photography 7.**Advisory: Completion of Journalism 11, Photography 9, and Photography 20.*

Course is designed to provide photography students with the skill- set to produce DSLR moving imagery in tandem with still photography. Students learn camera techniques, lighting, sound and editing for DSLR motion capture. Projects explore a variety of outcomes including online Photojournalism and editorial, as well as, commercial applications such as marketing, advertising and fashion. Students must furnish an adjustable digital camera.

1012.00

**422 Wedding Photography (2) [Cx]****(Degree-applicable)**

Hours: 24-27 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Prerequisite: Photography 7.*

Theory and practice in the basic techniques of wedding photography. Combining artistic vision with the use of light, composition and subject posing to produce creative images. Appropriate selection and use of cameras, lenses, filters, lighting, and special effects are explored, as well as business presentations and sales strategies. Student must furnish an adjustable digital camera.

1012.00

**430 Fine Art Photography Portfolio (4)****(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite(s): Photography 7 and 13.*

Designed for photography students interested in furthering their conceptual and technical skills learned in Fine Art Photography. Individually directed work in a supervised studio/lab environment that includes regular group, individual, and written critiques and reviews. Emphasis is on the development of a fine art portfolio.

1012.00

**432 Wedding Photography Portfolio (2)****(Degree-applicable)**

Hours: 24-27 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Prerequisite(s): Photography 7 and 422.*

Designed for photography students interested in furthering their conceptual and technical skills learned in Wedding Photography. Individually directed work in a supervised studio/lab environment that includes regular group, individual, and written critiques and reviews. Emphasis is on the development of a professional portfolio.

1012.00

**434 Public Relations Photography Portfolio (2)****(Degree-applicable)**

Hours: 24-27 lecture; 24-27 laboratory.

Grading: Letter grade only.

*Prerequisite(s): Photography 7 and 21.*

Designed for photography students interested in further honing skills learned in Public Relations Photography. Individually directed work in a supervised studio/lab environment includes regular group, individual, and written critiques and reviews - both written and oral - with an emphasis on the development of work suitable for portfolio review.

1012.00

**436 Studio Lighting Portfolio (4)****(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Photography 7 and 12.*

Designed for photography students interested in further honing skills learned in Studio Lighting. Individually directed work in a supervised studio environment includes regular group, individual, and written critiques and reviews with an emphasis on the development of work suitable for portfolio review.

1012.00

**438 Photography for Media Portfolio (4)****(Degree-applicable)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Photography 7 and 20.*

Designed for photography students interested in further honing skills learned in Photography for Media. Individually directed work in a supervised studio environment includes regular group, individual, and written critiques and reviews with an emphasis on the development of work suitable for portfolio review.

1012.00

**PHYSICAL EDUCATION: ACTIVITY**

(SEE KINESIOLOGY: ACTIVITY)

**PHYSICAL EDUCATION: LECTURE**

(SEE KINESIOLOGY: LECTURE)

**PHYSICAL EDUCATION: TEAM**

(SEE KINESIOLOGY: TEAM)

**PHYSICAL SCIENCE (PHSCI)****10 Survey of Chemistry and Physics (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 425 as determined by the Chaffey assessment process, or completion of Mathematics 410.**Advisory: Completion of Mathematics 425.*

Introduction to the principles of physics and chemistry. Topics include motion, forms of energy, electricity, magnetism, waves, electromagnetic radiation, atomic structure, bonding, phases of matter, pH and nuclear chemistry, acids and bases, and solutions. Course is recommended for liberal studies majors and future teachers.

(C-ID CHEM 140 and PHYS 140)

1901.00



## PHYSICS (PHYS)

### 5 The Ideas of Physics (3)

**(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 425 as determined by the Chaffey assessment process, or completion of Mathematics 410.*

Basic concepts of mass, force, and Newton's Laws of Motion are covered as well as conservation laws (momentum and energy). Introduction to physics for students requiring a general education science lecture course and for students majoring in engineering technology and the life sciences. 1902.00

### 6 The Ideas of Physics Laboratory (1)

**(CSU; UC credit limitations)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Corequisite: Physics 5 (may be taken previously)*

Introduction to physics for students requiring a general education science lab course and for students majoring in engineering technology and the life sciences. Experiments with some of the lecture concepts may include: measurement, free fall, vector addition and components, springs, centripetal force, kinetic energy, gravitational potential energy, conservation of momentum, and Archimedes' principle. 1902.00

### 20A Algebra/Trigonometry College Physics I (4)

**(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Mathematics 31, and Physics 5 or one year of high school physics.*

Course is designed for students majoring in a life or medical science, or engineering technology, whose university major does not require calculus-based physics. Position, velocity, and acceleration of objects are described using vectors. The concepts of mass, force, Newton's Laws of Motion, momentum, impulse, work, energy, and power are used to describe straight-line motion, projectile motion, circular motion, collisions, explosions, and vibration. Rotational motion includes torque, moment of inertia, angular momentum, and static equilibrium. 1902.00

(C-ID PHYS 105)

### 20B Algebra/Trigonometry College Physics II (4)

**(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Physics 20A.*

Course is designed for students majoring in a life or medical science, or engineering technology, whose university major does not require calculus-based physics. Topics include simple harmonic motion, static fluids and fluid flow, zeroth, first and second laws of thermodynamics, sound waves, electric force and field, electric potential energy, electrical potential, capacitance, resistance, electromotive force, magnetic force and field, Faraday's Law, inductors, light waves, and optics. 1902.00

(C-ID PHYS 110)

### 30A Physics for the Medical and Life Sciences I (4)

**(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Mathematics 61, and Physics 5 or 44 or one year of high-school physics.*

*Corequisite: Mathematics 65A.*

Course is designed for students majoring in a life or medical science, or engineering technology, whose university major requires calculus-based physics. Position, velocity, and acceleration of objects are described using vectors. The concepts of mass, force, Newton's Laws of Motion, momentum, impulse, work, energy, and power are used to describe straight line motion, projectile motion, circular motion, collisions, and explosions. Rotational motion includes torque, moment of inertia, angular momentum, and static equilibrium. Differential calculus is used to describe velocity and acceleration, and in presenting the laws of conservation of momentum and conservation of angular momentum. 1902.00

(C-ID PHYS 105)

### 30B Physics for the Medical and Life Sciences II (4)

**(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Mathematics 65A and Physics 30A.*

Course is designed for students majoring in a life or medical science whose university major requires calculus-based physics. Electricity and magnetism, including electric force and field, electric potential energy, potential, capacitance, resistance, electromotive force, magnetic force and field, and Faraday's Law. Inductors, with induced electromotive force presented as a derivative of flux. Power, intensity and loudness of sound waves. Interference, diffraction, and geometrical optics of light waves. 1902.00

(C-ID PHYS 110)

### 44 Introduction to Motion (4)

**(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Mathematics 61.*

Introduction to mechanics for students majoring in a physical science or engineering. Position, velocity, and acceleration of objects are described using vectors. Concepts of mass, force, Newton's Laws of Motion, momentum, and impulse are used to describe straight line motion, projectile motion, circular motion, collisions, and explosions. In the laboratory, microcomputers with motion detectors and force probes are used to study the concepts of velocity and acceleration, and Newton's Laws of Motion. Graphical representations of motion - velocity-time graphs, acceleration-time graphs, and force-time graphs - are emphasized. 1902.00

### 45 Physics for Scientists and Engineers I (5)

**(CSU; UC credit limitations)**

Hours: 64-72 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Mathematics 65A, and Physics 44 or completion of high school physics.*

For students majoring in a physical science or engineering. Topics covered include translational and rotational kinematics and dynamics, conservation laws, hydrostatics and hydrodynamics, and equilibrium. 1902.00

(C-ID PHYS 205)

### 46 Physics for Scientists and Engineers II (5)

**(CSU; UC credit limitations)**

Hours: 64-72 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Mathematics 65B and Physics 45.*

For students majoring in a physical science or engineering. Electromagnetic concepts: electric force - Coulomb's Law, electric field, Gauss' Law, electric potential energy, electric potential, capacitance, resistance, electromotive force, power, meters, RC circuits, magnetic field, magnetic force - cyclotrons, Ampere's Law, Faraday's Law, Maxwell's equations, inductors, LC circuits, and LCR circuits - impedance and power factor. 1902.00

(C-ID PHYS 210)

### 47 Physics for Scientists and Engineers III (5)

**(CSU; UC credit limitations)**

Hours: 64-72 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Mathematics 65B and Physics 45.*

For students majoring in a physical science or engineering. Topics include first and second laws of thermodynamics, heat engines, sound wave intensity, Doppler effect, light waves - interference and diffraction, optics - refraction, lenses, images, special relativity, energy levels in the hydrogen atom, and spectrum of the hydrogen atom. 1902.00

(C-ID PHYS 215)

## POLITICAL SCIENCE (PS)

### 1 American Politics (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Study of the American political process and institutions. Topics include: social and political institutions, major American linkage institutions, the politics of public policy, the struggle of under-represented groups for equality, and other current problems. Analysis of the organization and function of California's state and local governments. May be offered as an Honors course.

(C-ID POLS 110)

2207.00

### 2 Introduction to Political Science (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Use of methods and concepts to analyze political institutions, behavior, cultures, and ideologies. Various political systems (American and non-American) and the factors that lead to stability, change, and revolution. May be offered as an Honors course.

(C-ID POLS 150)

2207.00

### 3 California Politics and Culture (3)

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

State, county, and municipal government with an emphasis on California's unique heritage, culture, people, and politics. Issues such as economic and class conflict, immigration and ethnic-cultural influences, and problems in urban government in the 21st century are examined.

2207.00

### 4 Political Theory (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Introduction to the philosophical underpinnings of historical and contemporary political systems. Analysis of theoretical concepts including the nature of justice, power, freedom, and democracy. Views of theorists such as Plato, Machiavelli, and Marx are examined.

(C-ID POLS 120)

2207.00

### 7 International Relations (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions and processes as they relate to global issues. Examination of key IR theories and research methodologies, international security, the global economy, international law and organizations (e.g. UN, WTO), and non-traditional issues of human security – global poverty, pandemics, environment and resource management, and NGOs. Emphases on the foreign policies of major states, areas of conflict and tension, and various aspects of globalization.

(C-ID POLS 140)

2207.00

### 10 Comparative Politics (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Introduction to the study of comparative politics by analyzing the political systems of select industrialized democracies, current/former communist states, and developing states. Focus on each state's unique ideological, social, economic, and historical factors and an examination of how these factors impact their governments and politics. In addition to surveying democratic and non-democratic systems of governance, emphasis on the process of democratization.

(C-ID POLS 130)

2207.00

### 21 Urban Politics (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 475 as determined by the Chaffey assessment process, or completion of English 575.*

Analysis of the politics of urban and suburban areas in the United States, other industrialized countries, and the Third World. Important issues such as unemployment, poverty, racism, and the impact of economic change will be examined.

2207.00

### 25 Latino Politics (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Examination of Latino politics. Topics include: political influence, civil rights, discrimination, immigration, affirmative action, assimilation, acculturation, citizenship, political efficacy, voting affiliations and tendencies, diversity within the Latino community, and contemporary political issues affecting Latinos. Special emphasis on the growing political and economic impact of Latinos on the local, state, national, and international levels.

2203.00

### 32 Law and Society (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Analysis of law, its functions, cultural variations, legal theories of justice, and law as a tool of social change. A comparative analysis of Western and Third World legal systems will also be made.

2207.00

## PSYCHOLOGY (PSYCH)

### 1 Introduction to Psychology (3) [Cx]

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Guidance 2, and eligibility for English 1A as determined by the Chaffey assessment process or completion of English 475 or English as a Second Language 475.*

Psychology is the scientific study of behavior and mental processes. This introductory survey course explores major psychological theories and concepts, core empirical findings, and the methods used in psychological science. Topics include biological basis of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, developmental psychology, personality, social behavior, lifespan development, psychological disorders and their treatment, and applied psychology. May be offered as an Honors course.

(C-ID PSY 110)

2001.00

### 5 Personal and Social Awareness (3)

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Psychology 1.*

Course is designed with an applied focus on factors affecting personal and social awareness. Topics such as culture, gender, ethnicity, historical cohort, and socioeconomic status are examined and viewed through various psychological perspectives and theoretical foundations. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized.

(C-ID PSY 115)

2001.00

### 20 Developmental Psychology: Childhood and Adolescence (3)

(CSU; UC credit limitations)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Psychology 1.*

Study of human development from conception through adolescence. The physical, social and cognitive development of the growing child and adolescent are examined in light of contemporary research and theory.

2001.00

**21 Developmental Psychology: Adulthood and Aging (3)****(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Psychology 1.*

Study of the psychology of human development in adulthood with particular emphasis on biological and social influences. Environmental, cognitive, social, and physical changes are examined in light of contemporary research and theory. Designed to help persons of all ages understand the aging process from a biopsychosocial perspective.

2001.00

**25 Developmental Psychology: Lifespan Development (3)****(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

An overview of human development from conception through aging with particular emphasis on biological and environmental influences. Social, cognitive and physical changes in the growing child, adolescent and adult are examined in light of contemporary research and theory.

(C-ID PSY 180)

2001.00

**41 Biological Psychology (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Psychology 1.*

Study of the biological basis of behavior. Topics include: basic neuroanatomy and neurophysiology; neurophysiological mechanisms in movement, sensation, perception, learning, memory, emotion, psychological disorders, language, and consciousness; scientific method as applied in the brain sciences; brain evolution; and the effects of discoveries in the neurosciences on modern views of human nature and theories of mind.

(C-ID PSY 150)

2001.00

**55 Abnormal Psychology (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Psychology 1.*

Introduction to psychopathology. Disorders of sensation, perception, emotions, and thinking, and their nature, causes, and effects on life. Analysis of attempts at alleviation, helping therapies, and problem intervention.

(C-ID PSY 120)

2001.00

**65 Social Psychology (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Psychology 1.*

Course considers individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group will be examined. Emphasized topics include aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, and social cognition.

(C-ID PSY 170)

2001.00

**80 Research Methods in Psychology (4)****(CSU; UC)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Psychology 1 and Social Science 10.*

Survey of research methods currently used in psychology: archival, naturalistic observation, case study, survey, and field and laboratory experiments. Designed for the psychology major and others who require familiarity with such research techniques. Emphasis on student participation in conducting research and analyzing data.

(C-ID PSY 205B)

2001.00

**RADIOLOGIC TECHNOLOGY (RADTEC)**

**Students must apply for admission to the Radiologic Technology program and must pay for a physical examination.**

**10 Anatomy and Radiographic Positioning I (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission to the Radiologic Technology program.**Corequisite: Radiologic Technology 10L.*

Comprehensive study of radiographic positioning of the chest, upper extremity, lower extremity, shoulder and pelvic girdle, abdomen, and urinary system, with emphasis on associated anatomy, radiographic image evaluation, communication, patient care and safety. Provides the knowledge base necessary to perform standard radiographic procedures. Consideration is given to radiation protection and the production of images of optimal diagnostic quality. Laboratory experience complements the didactic portion.

1225.00

**10L Laboratory for Anatomy and Radiographic Positioning I (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Admission to the Radiologic Technology program.**Corequisite: Radiologic Technology 10.*

Discussion, application, demonstration, role-play and timed simulated procedure evaluations for positioning of the chest, upper extremity, lower extremity, shoulder girdle, pelvic girdles, abdomen, and urinary system. Emphasis on associated anatomy, radiation protection, patient communication and effective interaction and communication with patient/family. Radiographic images are evaluated for appropriate anatomy, image quality and radiation protection according to standard criteria.

1225.00

**16 Medical Procedures for Radiologic Technologists (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission to the Radiologic Technology program.**Corequisite: Radiologic Technology 16L.*

An overview of the Radiologic Technologist's role in the health care delivery system to include history, legal/ethical terminology, attitudes and communication for appropriate patient care, scope of practice, and radiation safety practices to include trauma, geriatric, neonatal, and pediatric patients. Topics include: ethical issues and dilemmas found in clinical practice; role of the radiographer in patient education and patient care; professional standards and the ASRT scope of practice. Recognition and treatment of adverse reactions to contrast agents, as well as patients suffering from stroke, myocardial infarction, and respiratory distress. Addresses various tubes, catheters and venous/arterial lines; oxygen delivery systems; infection control procedures (medical and surgical asepsis) using standard and isolation precautions; skills theory to include acquiring vital signs, enema administration, drug preparation administration, urinary catheterization, and transfer of patients. Patient and radiographer safety protocols, including body mechanics, patient transfer and movement, positioning, immobilization, environmental safety and accident/incident reporting are emphasized. Laboratory experience complements the didactic portion

1225.00

**16L Laboratory for Medical Procedures for Radiologic Technologists (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Admission to the Radiologic Technology program.**Corequisite: Radiologic Technology 16.*

Discussion, application, role-play and timed simulated procedure evaluations of the medical procedures and techniques commonly used in radiology departments. Enema administration, drug administration and urinary catheterization procedures. Infection control procedures using standard precautions including the use of portable equipment. Assessment of patient status for vital signs and blood pressure. Focus on patient care, safety, effective communication, and proper body mechanics for wheelchair/stretchers transfer along with the importance of documentation and informed consent is emphasized. Medical and surgical aseptic technique is studied in depth.

1225.00

**20 Radiologic Science and Protection (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission to the Radiologic Technology program.**Corequisite: Radiologic Technology 20L.*

Course establishes a basic knowledge of the fundamental properties of radiation, x-ray production and interaction with matter. The content covers the operation of radiographic equipment and digital imaging systems. The prime technical factors required to produce a radiographic image and influence the production and recording of radiologic images are introduced. Imaging receptors for computed radiography and direct-digital radiography systems are compared for methods of image acquisition, processing, delivery, storage, image display, archiving and retrieval. Radiation interaction effects on living systems and the factors affecting biological responses are studied. Emphasis is placed on attenuation and absorption of radiation within the human body, basic radiation measurement and the associated health effects. Principles of radiologic protection and safety for the patient and technologist are reviewed and correlated to state and federal radiation control laws. The use of accessories in radiography is explored. Laboratory experiments are performed to compliment the didactic instruction. 1225.00

**20L Laboratory for Radiologic Science and Protection (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Admission to the Radiologic Technology program.**Corequisite: Radiologic Technology 20.*

Experiments are performed in on-campus radiographic laboratories to illustrate the theories presented in lecture. Through a process of discussion, demonstration, return demonstration, group sharing and demonstration evaluation, students correlate concepts with the actual making of a radiographic image. Laboratory experiments demonstrate the actual production of radiation, facilitating student acquisition of competency and skill in the handling of radiographic equipment. Calculations of exposure factors needed to produce radiographic images are performed for digital radiography systems. Focus is placed on equipment manipulation (to include mobile units), image receptors, ionization and exposure, beam intensity and radiation protection. Radiographic image evaluation and critiques are performed to assist students utilizing a digital imaging system. 1225.00

**25 Anatomy and Radiographic Positioning II (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Successful completion of the first semester of the Radiologic Technology program.**Prerequisite: Radiologic Technology 10.**Corequisite: Radiologic Technology 25L.*

Comprehensive study of radiographic positioning of the vertebral column, bony thorax, gastrointestinal tract, and biliary system. Imaging considerations for trauma, mobile/portable, surgical and age specific approaches for pediatric and geriatric patients. Emphasis on associated anatomy, related introductory pathology, radiographic image evaluation, communication, and patient care and safety. Radiation protection and the evaluation of optimal diagnostic images are stressed. Course provides the knowledge base and cognitive skills necessary to perform standard radiographic procedures. 1225.00

**25L Laboratory for Anatomy and Radiographic Positioning II (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Successful completion of the first semester of the Radiologic Technology Program.**Prerequisite: Radiologic Technology 10L.**Corequisite: Radiologic Technology 25.*

Discussion, application, demonstration, role-play and timed simulated procedure evaluations for positioning of the vertebral column, bony thorax, gastrointestinal and biliary systems, trauma, mobile/surgical, pediatric and geriatric radiography. Emphasis on associated anatomy, radiation protection, patient communication and effective interaction and communication with patient/family. Radiographic images are evaluated for appropriate anatomy, image quality and radiation protection measures according to standard criteria. 1225.00

**31 Radiographic Clinical Education I (2)****(CSU)**

Hours: 96-108 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Admission to the Radiologic Technology Program.*

First semester of clinical practice experiences designed for sequential development, application, critical analysis, and integration of the concepts and theories presented in the on-campus courses. Using competency-based assignments, the student first observes and then performs - under direct supervision - patient care and radiographic procedures. Course emphasis on familiarizing the student with the clinical educational setting, patient-centered clinical practice, professional development, and working relationships with other health care professionals. Competency and outcomes measurement ensure the well-being of the patient pre-, during, and post-procedure. Students perform under direct supervision following the policy and procedures in the Radiology Technology Student Handbook. 1225.00

**34 Radiographic Imaging (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Admission to the Radiologic Technology program.**Prerequisite: Radiologic Technology 20.**Corequisite: Radiologic Technology 34L.*

Comprehensive study of digital imaging systems, including design, image acquisition, display, processing, delivery, and storage. Review of diagnostic radiology equipment components, function, and operation, to include x-ray tube circuitry and radiographic grids. Differences between detectors for cassette-based and cassette-less digital systems response to radiation are explored. In-depth study of radiation protection, health physics, cell radiosensitivity, and radiobiologic effects on humans. 1225.00

**34L Laboratory for Radiographic Imaging (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Admission to the Radiologic Technology program.**Prerequisite: Radiologic Technology 20L.**Corequisite: Radiologic Technology 34.*

Theoretical concepts are correlated with laboratory results in a series of experiments conducted in on-campus laboratories. Through a process of discussion, demonstration, return demonstration, group sharing, and evaluation, students apply radiation theory to the production of quality digital images. Digital imaging using computed radiography cassettes demonstrate the range of possible exposure latitude and association with patient dose considerations. The use and misuse of grids and quality control tests are performed and evaluated. Beam restriction (collimation), centering sensitivity, acquisition errors, and post-processing capabilities of digital imaging are also explored. Image evaluation and critiques assist students in developing the required skills when utilizing digital imaging systems. 1225.00

**40 Radiographic Clinical Education II (8)****(CSU)**

Hours: 384-432 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Successful completion of the first semester of the Radiologic Technology program.**Prerequisite: Radiologic Technology 31.*

Clinical practice experiences designed for sequential development, application, critical analysis, integration, synthesis, and evaluation of concepts and theories in the performance of radiologic procedures. Using structured competency-based assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, evaluated, and reinforced. Course emphasis on patient assessment, competent performance of radiologic images, and well-being of the patient pre-, during, and post-procedure. Students perform under direct or indirect supervision as appropriate following the procedures in the Radiology Technology Student Handbook. 1225.00



**50 Radiographic Clinical Education III (6)****(CSU)**

Hours: 288-324 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Chaffey College Radiologic Technology program and successful completion of the first two semesters.*

Continued clinical practice experiences designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of radiologic procedures. Through structured sequential, competency-based assignments in clinical setting, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, evaluated, and reinforced. Emphasis is on patient care and assessment, competent performance of radiologic imaging procedures, appropriate sequencing, and total quality management. 1225.00

**55 Radiographic Equipment and Clinical Application (2)****(CSU)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Radiologic Technology program with successful completion of the first two semesters.*

Course establishes a knowledge base in fluoroscopic equipment requirements, design, and operation, to include conventional and digital fluoroscopic equipment. Study of the radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies, and health care organizations. Study of radiobiology as it relates to occupational and public dose limits, and radiation effects on the human body. Overview of personnel dose monitoring, record keeping and equipment. Study of radiation protection practices specific to fluoroscopy studies consistent with ALARA principles. Class demonstrations/labs provide opportunity for application and reinforcement of theory. 1225.00

**61 Radiographic Clinical Education IV (8)****(CSU)**

Hours: 384-432 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Must be a 2nd year Radiologic Technology student in good standing.*

Continued clinical practice experiences designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of radiologic procedures. Through structured, competency-based assignments in the clinical setting, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, evaluated, and reinforced. Emphasis is on patient care and assessment, competent performance of radiologic imaging, and total quality management. 1225.00

**66 Anatomy and Radiographic Positioning III (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Must be a 2nd year Radiologic Technology student in good standing.**Corequisite: Radiologic Technology 66L.*

Comprehensive study of radiographic positioning of the calvarium, facial area, sinuses, and temporal bone provides the knowledge base necessary to perform standard imaging procedures. An introduction to CT and other modalities is also included. Laboratory experience complements the didactic portion. 1225.00

**66L Laboratory for Anatomy and Radiographic Positioning III (1)****(CSU)**

Hours: 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Must be a 2nd year Radiologic Technology student in good standing.**Corequisite: Radiologic Technology 66.*

Laboratory practice in the production of radiographic images of the calvarium, facial area, sinuses, and temporal bone on simulated patients. Emphasis on relevant anatomy, radiation protection, and effective patient interaction in the production of quality radiographic images and their evaluation. 1225.00

**70 Radiographic Clinical Education V (11)****(CSU)**

Hours: 528-594 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Must be a 2nd year Radiologic Technology student in good standing.*

Guided practice in the application of radiologic technology to patients in a hospital environment, with increasingly independent performance by the student practitioner. Clinical experiences reinforce theory, perfect skills, and strengthen student-patient interactions, providing for the production of quality diagnostic images and patient well-being prior to, during, and following the procedure. Students move between clinical sites to experience different equipment and procedures. Evening shifts are required. 1225.00

**77 Radiographic Pathology (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Must be a 2nd year Radiologic Technology student in good standing.*

Introduction to theories of disease causation and the pathophysiologic disorders that compromise healthy systems. Analysis of alterations in body systems' anatomy and physiology occurring in response to disease, emphasizing the impact on related radiographic procedures. Definitions and classifications, etiology, pathophysiologic responses, complications, clinical manifestations, radiographic appearance, and procedural and technique considerations are studied in depth. 1225.00

**81 Radiographic Clinical Education VI (5)****(CSU)**

Hours: 240-270 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Acceptance into the Chaffey College Radiologic Technology program and successful completion of the first five semesters.*

Final course in the series of guided practicums applying radiologic technology to patients in a hospital environment. Advanced clinical practice experiences designed to provide patient assessment and care, competent performance of radiologic imaging, and assure total quality management. Sequential development, critical analysis, integration, synthesis, application, and evaluation of concepts and theories in the performance of radiologic procedures. Students perform independently with appropriate supervision to assess their skills for employability. 1225.00

**85 Radiographic Review and Exam Preparation (2)****(CSU)**

Hours: 32-36 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Successful completion of the fifth semester of the Radiologic Technology program.*

Review of the entire radiologic technology curriculum, following the ARRT examination outline, to prepare the student for the written certifying examinations at the state and national levels. 1225.00

**470 Venipuncture for Imaging Professionals (1)****(Degree-applicable)**

Hours: 24-27 lecture.

Grading: Letter grade only.

*Limitation on Enrollment: Student must be a 2nd year radiography student or a graduate of a JRCERT-approved radiography program, and possess a current health care provider CPR card.**Corequisite: Radiologic Technology 470L.*

Basic concepts of the pharmacology associated with venipuncture. Procedural techniques, anatomy and physiology of venipuncture sites; use of instruments and related equipment, and administration of diagnostic contrast agents and/or intravenous medication. Emphasis on appropriate delivery of patient care during the procedure and documentation requirements. 1225.00

**470L Venipuncture Laboratory for Imaging Professionals (0.5)****(Degree-applicable)**

Hours: 24-27 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Student must be a 2nd year radiography student or a graduate of a JRCERT-approved radiography program, and possess a current health care provider CPR card.**Corequisite: Radiologic Technology 470.*

Application of skills and reinforcement of theory in the basic concepts of pharmacology and venipuncture. Demonstration of the anatomy and physiology of venipuncture sites, venipuncture instrumentation, I.V. solutions, and use of related equipment. Students first execute simulated demonstrations, then perform a minimum of 10 successful venipuncture sticks on simulated mannequins. Patient care aspects of venipuncture are emphasized.

1225.00

**READING**

(SEE ENGLISH)

**REAL ESTATE (RE)****10 Real Estate Principles (3) [Cx]****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Fundamentals of real estate, covering basic laws and principles of California real estate. Gives understanding, background, and terminology necessary for advanced study in the specialized courses.

0511.00

**15 Real Estate Practice (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Real Estate 10.*

Office procedures and practices of the broker and sales person in the real estate business, including listing, prospecting, advertising, financing, exchanges, and sales techniques. Course is applicable toward the educational requirements for broker's license and real estate salesperson's license.

0511.00

**50 Legal Aspects of Real Estate I (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Real Estate 10.*

Introductory course to acquaint students with current California real estate law, with emphasis on its application in real estate brokerage and related fields. Course is applicable toward the educational requirements for broker's license and real estate salesperson's license.

0511.00

**60 Real Estate Finance (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Real Estate 10.*

Analysis of real property financing. Topics include primary and secondary sources of real estate loans, mathematics and legal aspects of finance, role of government agencies, mortgage insurance and interest rates, credit reporting, real estate appraisal, and taxation. Course is applicable toward the educational requirements for broker's license and real estate salesperson's license.

0511.00

**70 Real Estate Appraisal (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Real Estate 10.**Advisory: Current real estate license may substitute for Real Estate 10.*

Introductory course covering the purposes of appraisals, the appraisal process and approaches, and the methods and techniques used to determine the value of various types of property, with emphasis on the single-family residence. Course is applicable toward the educational requirements for broker's license and real estate salesperson's license.

0511.00

**86 Real Estate Property Management (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Real Estate 10.*

Introduction to management of real estate property. Identification and analysis of functions, responsibilities, legal rights, liabilities, and leasing instruments of property management. Course is an elective for the California sales or broker's license.

0511.00

**472 Advanced Real Estate Appraisal (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Real Estate 70.*

Appraisal of residential apartment buildings, small office buildings, shopping centers, and industrial buildings. Course meets California real estate broker license requirements, and is accepted as 54 hours toward Office of Real Estate Appraisers (OREA) certificate-residential/certificate-general appraisal requirements.

0511.00

**475 Real Estate Escrow I (3)****(Degree-applicable)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Real Estate 10.*

Case method study of escrow procedures, including the actual processing of sale escrow. Topics include: encumbrances, interest adjustments, reconveyance, mortgages, insurance, taxes, fees, unique vocabulary, title policy types, drawing of documents, and other processing details pertinent to the handling of an escrow from inception to closing. Course applies towards the education requirements for broker's and real estate salesperson's licenses.

0511.10

**SOCIAL SCIENCE (SCSCI)**

(ALSO SEE ANTHROPOLOGY, GERONTOLOGY, HISTORY, PHILOSOPHY, POLITICAL SCIENCE, PSYCHOLOGY AND SOCIOLOGY)

**10 Statistics for Social Science (4)****(CSU; UC credit limitations)**

Hours: 48-54 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 25 or higher as determined by the Chaffey assessment process, or completion of Mathematics 425.*

Survey of methods used to analyze and interpret data generated by scientific investigation. Purpose and application of statistics, frequency distributions and graphing, central tendency, variability, percentiles, standard scores, the normal distribution, regression, correlation, probability, hypothesis testing, simple and two-factor analysis of variance, and non-parametric techniques. Use of computerized statistical packages such as SPSS.

(C-ID SOCI 125)

2201.00

**17 Human Sexuality (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of one or more behavioral science courses.*

Interdisciplinary introduction to human sexuality, with an emphasis on sexual values, sexual communication, and sexual relationships. Includes physiological, cross-cultural, sociological, and psychological information, as well as an evaluation of sex research. Lectures are supplemented by class discussion, video presentations, and demonstrations.

2201.00

**SOCIOLOGY (SOC)**

(ALSO SEE SOCIAL SCIENCE)

**10 Introduction to Sociology (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Class introduces students to basic concepts, theoretical approaches and methods employed in Sociology. The class will examine, analyze, and explain social structure, group membership and dynamics, socialization and the self, social stratification, culture and diversity, social change and globalization. Students should be able to apply the sociological framework to everyday life upon taking this course. May be offered as an Honors course. 2208.00

**14 Sociology of Gender (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Sociology 10.*

Roles and status of women and men in society. Topics include historical constructs and practices; sex and gender stratification; cross-cultural variances; impact of political and economic changes on societal expectations, family dynamics, education and laws; socialization processes; media influences; and sex and gender debates. (C-ID SOCI 140) 2208.00

**15 Ethnic and Race Relations: U.S. and Global Perspectives (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Sociology 10.*

Application of major sociological theories and concepts to the examination of ethnic and race relations in the United States and the world, with detailed focus on the four major U.S. ethnic groups: African-American, Latino-American, Asian-American, and Native American. Scrutiny of historical, socioeconomic, and gender influence on inter-group relations. Examination of cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, as well as patterns of interaction between various racial and ethnic groups. Significance of contemporary multiculturalism, and its relation to racism, ethnocentrism, and sexism. (C-ID SOCI 150) 2208.00

**16 Marriage, Family and Relationships (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Socio-historical, cross-cultural, social class, and ethnic variation in marriages, families, and relationships. Topics include romantic love, mate selection, gender roles, communication, sexuality, parenting, divorce, single-parent families, remarriage, cohabitation, variation in relationships, changes in the definition of relationships over time, and abusive relationships. Emphasis on the application of theories, research, and social factors. (C-ID SOCI 130) 2208.00

**18 Sociology of Aging (3)****(CSU; UC credit limitations)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Sociology 10.*

Social, cultural, and policy issues for an aging society. Diversity in the experience of aging: cultural, economic, gender, and ethnic differences. Age and aging as social constructs. Life-long age status and role expectations. Society's response to an increasingly aged population. May be offered as an Honors course. 2208.00

**25 Introduction to Chicano/Latino Studies in the United States (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of Chicano/Latino people in the United States, examining race, ethnicity, gender and sexuality, social class, history, politics, institutional discrimination, culture, migration and globalization, literature, and the arts. 2203.00

**26 Introduction to Latin American Societies (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Survey of the Latin American societies in Mexico, Central and South America, and the Caribbean. Examination of the patterns of social, economic, political, and cultural change in modern Latin America, and the multidimensional legacies of conquest. Analysis of U.S.-Latin American relations and symbiotic influences. Study of cultural diversity, race, and gender as reflected in religion, art, literature, music, and film. Scrutiny of the influence of race, gender, class division, and social conditions as stimuli for cultural change, social movements, revolutions, civil wars, dictatorships, and democracy. Application of sociological perspectives to the study of Latin American societies. 2203.00

**70 Social Problems (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Sociology 10.*

Social problems in modern industrial societies. Discussion of the techniques of social problems research. Sexual deviance, alcohol and drug abuse, crime, poverty, and sexism. (C-ID SOCI 115) 2208.00

**80 Introduction to Research Methods in Sociology (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Sociology 10.**Advisory: Completion of Social Science 10.*

Survey of research methods from a sociological perspective to understand and explain how social forces affect groups within a society. Includes attention to the nature of sociological theory, hypotheses, variables, and ethics of research. Sociological research dealing with quantitative data such as surveys and experiments; qualitative data such as participant observation, in-depth interviews, case studies, and ethnography; secondary analysis such as comparative historical research, census analysis, and content analysis. Designed for the sociology major and others who require familiarity with sociological research techniques. Emphasis on student participation in conducting research and analyzing data from a variety of methodological approaches. (C-ID SOCI 120) 2208.00

**SPANISH (SPAN)****1 Elementary Spanish I (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

Introductory course teaching beginning language acquisition in a cultural context through listening, speaking, reading, and writing. Students interact with authentic language in cultural context. Course corresponds to the first year of high school Spanish. Spanish 1 is not recommended for heritage (native) speakers of Spanish. Ten hours of supplemental learning in a Success Center that supports this course is required. (C-ID SPAN 100) 1105.00

**2 Elementary Spanish II (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Spanish 1 or one year of high school Spanish.*

Course continues teaching language acquisition in a cultural context through listening, speaking, reading, and writing at the second semester level. Students continue to interact with authentic language in cultural context. This course corresponds to the second year of high school Spanish. Spanish 2 is not recommended for heritage (native) speakers of Spanish. Ten hours of supplemental learning in a Success Center that supports this course is required.

(C-ID SPAN 110)

1105.00

**3 Intermediate Spanish I (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Spanish 2 or two years of high school Spanish.*

Course teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Students continue to interact with authentic language in context. Content is expanded beyond "survival" needs of the immediate environment in order to express personal meaning and to apply different strategies and techniques to go beyond casual conversation and express opinions, make suggestions on familiar topics, as well as some abstract issues and plans. Students demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. Accuracy becomes quite high for high frequency structures and vocabulary but more complex discourse is still developing and requires a somewhat sympathetic listener or reader. Students demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. This course is taught primarily in Spanish. Ten hours of supplemental learning in a Success Center that supports this course is required.

(C-ID SPAN 200)

1105.00

**3SS Spanish for Heritage Speakers I (4)***(formerly Spanish 1SS)***(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Spanish 2 or department-determined equivalency.*

Course is designed for heritage speakers of Spanish or other linguistically qualified students. It provides instruction that builds upon the existing reading, writing, speaking and listening skills and the cultural heritage and knowledge of these students. The course will increase awareness of linguistic registers, discuss items beyond the familiar routine and develop an appreciation for Hispanic cultures as manifested in Spanish speaking countries and in the United States. Course is conducted entirely in Spanish.

(C-ID SPAN 220)

1105.00

**4 Intermediate Spanish II (4)****(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Spanish 3.*

Course continues to expand upon culture and facilitate language acquisition through listening, speaking, reading and writing. Students interact with more sophisticated authentic language in context. Content continues to expand in order to express more complex ideas in order to express personal meaning and to apply different strategies and techniques to go beyond casual conversation and express opinions, make suggestions on familiar topics, as well as some abstract issues and plans. Students demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. Accuracy becomes quite high for high frequency structures and vocabulary but more complex discourse is still developing and requires a somewhat sympathetic listener or reader. Students continue to demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. This course is taught primarily in Spanish. Ten hours of supplemental learning in a Success Center that supports this course is required.

(C-ID SPAN 210)

1105.00

**4SS Spanish for Heritage Speakers II (4)***(formerly Spanish 2SS)***(CSU; UC)**

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Spanish 3SS or department-determined equivalency.*

Course continues to provide instruction that builds upon the existing reading, writing, speaking and listening skills and the cultural heritage and knowledge of these students. The course will continue to increase awareness of linguistic registers, discuss items beyond the familiar routine and expand upon students appreciation for Hispanic cultures as manifested in Spanish speaking countries and in the United States. Course is conducted entirely in Spanish.

(C-ID SPAN 230)

1105.00

**8 Survey of Hispanic Literature: 1700-Present (3) [Cx]****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Spanish 3, Spanish 3SS, or department-determined equivalency.*

A Chronological survey, conducted in Spanish, of the history and development of Spanish and Spanish-American literature from 1700 to the present. Emphasis is on critical thinking and reasoned support of ideas. Literary discussions and written expression will be important components of the class, as well as exposure to Peninsular and Latin American culture. This course is designed for advanced speakers of Spanish who wish to improve their skills through reading, writing, and literary discussion. Prepares students for upper-division courses.

1105.00

**13 Survey of Mexican Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Course explores Mexican cultural identity through the reading and discussion of major works in Mexican literature in translation from different periods. Close reading guides the reader toward greater understanding and appreciation of the culture and history of Mexico. Selected readings from important authors such as Mariano Azuela, Juan Rulfo, Rosario Castellanos, Carlos Fuentes and Octavio Paz.

1105.00

**14 Latin American Literature (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of English 1A.*

Course studies the diverse cultures of Latin America through reading and discussion of major works of Latin American literature in translation from different historical periods. Selections will be made from different genres, including novels, drama, poetry and the essay. Students learn to identify literary movements and recognize historical, cultural and artistic influences in the works of important authors such as Gabriela Mistral, Pablo Neruda, Jorge Luis Borges, Mario Vargas Llosa and Gabriel Garcia Marquez.

1105.00

**16 Spanish Composition (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Spanish 4SS or 3.*

Writing in Spanish, including writing strategies as well as recognition and self-correction of errors. Focus on paragraph development using appropriate grammar, punctuation, tense, style, and complex sentences, with ultimate goal of writing an essay in Spanish.

1105.00



## STATISTICS (STAT)

### 10 Elementary Statistics (4)

(CSU; UC credit limitations)

Hours: 64-72 lecture.

Grading: Letter grade only.

*Prerequisite: Eligibility for Mathematics 25 or higher as determined by the Chaffey assessment process, or completion of Mathematics 425.*

Introduction to descriptive and inferential statistics with problem sets and examples from a variety of disciplines. Topics include frequency distribution; measures of variation and central tendency; elementary probability theory; discrete and continuous random variables; binomial, normal, and t-distribution; interval estimations of population parameters; hypotheses testing; analysis of variance; chi square analysis; and linear regression and correlation. A specific graphing utility is required; see instructor before acquiring. May be offered as an Honors course.

(C-ID MATH 110)

1701.00

## THEATRE ARTS (THEATRE)

### 1 Introduction to Theatre (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students also survey different periods, cultures, styles, and genres of theatre through play reading, discussion, films and viewing and critiquing live theatre, including required attendance of theatre productions.

(C-ID THTR 111)

1007.00

### 2 Theatrical Dance (3)

(Also available as Dance 2)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Study of physical movement as it relates to the body on stage, including movements commonly used in musical theatre, jazz, and modern dance techniques. This course is for the theatre and/or dance major, or any performer or student interested in developing awareness and understanding the importance of control, coordination, balance, strength, and conscious development of movement habits.

1007.00

### 4 Theatre History: Ancient to 1700 (3) [Cx]

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Study of theatre history from its origins through the 17th century. Emphasis on historical, philosophical, and sociological influences on development of the theatre. Plays are read for analysis of structure, plot, character and historical relevance.

(C-ID THTR 113)

1007.00

### 5 Theatre History: 1700-Present (3) [Cx]

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Eligibility for English 1A as determined by the Chaffey assessment process, or completion of English 475 or English as a Second Language 475.*

Study of theatre history from the late 17th century through the present. Emphasis on historical, philosophical, and sociological influences on the development of the theatre. Plays are read for analysis of structure, plot, character and historical relevance.

1007.00

### 10 Beginning Acting (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

Theory of acting and acting techniques with an introduction to Stanislavski's method of acting. Provides a foundation in acting through a study of improvisation, vocal techniques, historical concepts, and theory through scene and monologue work. Emphasis on character development through the use of voice, movement and script analysis.

(C-ID THTR 151)

1007.00

### 12 Intermediate Acting (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Theatre Arts 10.*

In depth application of the techniques explored in beginning acting, with emphasis on characterization and scene study.

(C-ID THTR 152)

1007.00

### 14 Stylized Acting (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Theatre Arts 10.*

Advanced acting techniques necessary for drama of various types. Students study Elizabethan, Commedia dell'arte, Comedy of Manners, and contemporary styles of acting. Some work on dialects as needed for specific scenes.

1007.00

### 18 Seminar in Television Production: Acting Techniques (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Theatre Arts 10.*

Prepares the student for the particular demands of acting in front of the camera, either motion picture or television. Course examines techniques of blocking, text analysis, cold reading, vocabulary, and various camera shots.

1007.00

### 20 Directing for the Stage I (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Theatre Arts 10.*

Course is designed for theatre students to explore fundamentals of play directing. Through a series of exercises, students demonstrate a knowledge of specific directing techniques and skills necessary to direct a contemporary play.

1007.00

### 21 Directing for the Stage II (3)

(CSU; UC)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Prerequisite: Theatre Arts 20.*

Course is designed for advanced theatre students to explore an in-depth study of directing. Through a series of exercises, students demonstrate a knowledge of specific directing techniques and skills necessary to direct a one-act play for a public performance.

1007.00

### 30 Technical Theatre (3)

(CSU; UC)

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

The theory and practice of stagecraft including construction techniques, painting properties, rigging and lighting, sound, knowledge of tools and equipment, shop safety, and computer assisted set-lighting and sound design. Course involves participation in all the technical aspects of preparing a scheduled College production.

(C-ID THTR 171)

1006.00

### 32 Theatre Design - Lighting (3)

(CSU)

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Theatre Arts 30.*

Study and execution of stage lighting with emphasis on equipment, control, and color, and their relationships to design.

(C-ID THTR 173)

1006.00

**35 Musical Theatre Performance (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Advisory: Completion of Theatre Arts 10.*

Study of performance techniques in musical theatre. Emphasis on the integration of acting, singing, and movement techniques through a combination of group scenes and solo works.

1006.00

**36 Stage Management (3)****(CSU)**

Hours: 48-54 lecture.

Grading: Letter grade only.

Study and practical application of the practices of a stage manager as they pertain to a theatrical production process. Emphasis is placed on the duties, responsibilities and procedures from pre-production to post-production. The course will prepare students interested in stage management positions for the Theatre Arts Department productions.

1006.00

**40 Stage Costuming (3)****(CSU; UC)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. Students will also participate in the stage production as related to costuming.

(C-ID THTR 174)

1006.00

**42 Theatrical Makeup (3)****(CSU; UC)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

Introduction to the theory, design, and application of makeup for the theatre, including corrective, character, and non-realistic. Practical use of theatrical makeup materials for the various theatrical forms.

(C-ID THTR 175)

1006.00

**50 Main Stage Production Workshop I (3)****(CSU; UC)**

Hours: 144-162 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Audition/interview with the faculty overseeing the specific production.*

Course provides instruction and supervised participation in theatre rehearsal and performance. Requires participation in either an acting or production role.

(C-ID THTR 191)

1006.00

**51 Main Stage Production Workshop II (3)****(CSU; UC)**

Hours: 144-162 laboratory.

Grading: Letter grade only.

*Prerequisite: Theatre Arts 50.*

A continuation of supervised practical experience in the preparation and public performance of a faculty-directed theatrical production. Requires participation in an acting, design, or production role.

1006.00

**55 Technical Theatre in Production (2)****(CSU)**

Hours: 96-108 laboratory.

Grading: Letter grade only.

*Prerequisite: Theatre Arts 30 or 40*

Practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Practical experience not limited to main stage productions on campus, and may include work at different venues on and off campus.

(C-ID THTR 192)

1006.00

**57 Children's Theatre (3)****(CSU)**

Hours: 32-36 lecture; 48-54 laboratory.

Grading: Letter grade only.

*Limitation on Enrollment: Enrollment is based upon a successful audition or interview.*

*Advisory: Completion of Theatre Arts 10.*

Course examines the dramatic structure, acting, and directing techniques that are employed in the production of theater for children. Practical and creative applications of scenic design, costumes, make-up, and performance are among the topics studied in the preparation of the final production. Students audition, rehearse, design, and perform a play suitable for elementary and/or junior high students. The production travels to different school sites, allowing the actors to experience a variety of theatre spaces.

1006.00

**60 Seminar: Acting (3)****(CSU; UC)**

Hours: 48-54 lecture.

Grading: Letter grade only.

*Advisory: Completion of Theatre Arts 10.*

Seminar for actors who have completed several acting courses or who have had extensive stage training through participation in public performances. Offers the actor an opportunity to examine and perform plays not normally offered in the regular program. Students pursue specialized study of acting through selected theatrical topics.

1007.00

**X-RAY**

(SEE RADIOLOGIC TECHNOLOGY)

**ZOOLOGY**

(SEE BIOLOGY)

# STUDENT SUPPORT SERVICES

## ATHLETICS

Playing under the name of The Panthers, the men's and women's teams compete in the Foothill Athletic Conference, the South Coast Conference (aquatics), the National Central Conference (football) and the Pacific Coast Conference (cross country). The men's athletic program offers competition in football, basketball, baseball, cross country, swimming, soccer, and water polo. The women's athletic program includes competition in basketball, softball, cross country, swimming, water polo, soccer, and volleyball.

### ATHLETIC ELIGIBILITY

Chaffey College is a member of the Foothill Conference, the South Coast Conference (aquatics), the National Central Conference (football) and the Pacific Coast Conference (cross country). Intercollegiate athletic competition is governed by the California Community College Athletic Association (CCCAA).

To be eligible for competition, student-athletes must be enrolled in a minimum of 12 units during the season of sport (9 of those units must be degree/certificate applicable). Between seasons, student-athletes are required to complete 24 units, and maintain a minimum 2.00 GPA. Consult the athletic counselor or coach to determine athletic eligibility and to complete a student educational plan.

### ATHLETIC FACILITIES

The recently renovated Earl Sicosky Gymnasium has a seating capacity of 715. The upper level provides bleachers, a yoga/aerobics room and the George Colbath Fitness Lab. The student locker rooms are located on the west side of the building; team locker rooms are located on the east side. The Sports Center is located directly north of the current gymnasium. This facility seats 1,693 and provides competition-level courts for basketball and volleyball. The plaza area may also be used for campus events. Other athletic facilities on campus include:

- Tennis courts
- Grigsby Field (a 4,200 seat stadium with football field and track)
- Lowder Field (baseball)
- Handball courts
- State-of-the-art softball facility
- Strength and conditioning lab
- Two additional fields for physical education and athletic activities
- Swimming pool (located immediately south of the gymnasium)

## ECONOMIC DEVELOPMENT

### CONTRACT EDUCATION

Chaffey College is pleased to offer customized training to meet the needs of business and industry within the community. Contract Education services are a component of the California Community Colleges' mission to advance economic growth, enhance employee performance and increase the return on investment for area business and industry, from large corporations to the small business entrepreneur. Trainers have business and industry experience and relevant credentials. Customized training and development programs are fee based and in many instances, funded by the California Employment Training Panel contract awarded to Chaffey College's Economic Development Department. Training is typically delivered at the business site and can be arranged around business schedules (all shifts; all days). Consulting services and needs assessments are also provided. Please call (909) 652-7642 for further information or visit [www.chaffey.edu/workforce](http://www.chaffey.edu/workforce).

## EMPLOYMENT DEVELOPMENT

### WORKFORCE PREPARATION PROGRAM

The Workforce Preparation Program provides short-term training programs that lead to employment. Supportive services offered through this program include: career and educational counseling, CalWORKs work study, job development, job placement, mentoring and internship opportunities for students who are receiving CalWORKs. This program is specifically designed to assist students in developing the skills necessary to obtain employment at self-sufficient wages. This program is also the campus contact for specially funded training programs including WIA (Workforce Investment Act), TRA (Trade Readjustment Act) and WIB (Workforce Investment Board) grants. Please call (909) 652-6049 for additional information.

### COMMUNITY EDUCATION AND PROFESSIONAL DEVELOPMENT

Chaffey College endeavors to serve our community by providing continuing education opportunities as well as personal and professional development classes through our Community Education and Professional Development Program. These fee-based classes are designed to respond to community interests and to assist our region's economic development by strengthening work-related skills. Current Community Education and Pro-

fessional Development Schedule of Classes are available on the college's website at [www.chaffey.edu/communityed](http://www.chaffey.edu/communityed). For further information, please call (909) 652-6041.

## HOUSING

Since the college has no dormitory facilities, students not living at home must make their own arrangements for housing. Chaffey College assumes no responsibility for the inspection or approval of student housing.

## PUBLICATIONS

The Breeze is the official student publication on campus. Published twice a month, the newspaper is written and edited by students enrolled in Journalism 30 and Journalism 31.

The Student Handbook, available at no charge, and other publications including information about the programs and services of the college are also available in the Office of Student Activities or accessed online at [www.chaffey.edu/stuactiv/student\\_handbook.pdf](http://www.chaffey.edu/stuactiv/student_handbook.pdf).

## STUDENT ACTIVITIES

The Office of Student Activities promotes events and coordinates programs that provide students with an opportunity for educational and social growth outside the classroom. Services for students include the publication of a Student Handbook, graduation, annual spring scholarships, numerous cultural events, emergency book grants, lecture series, information on student organizations, student government, community service projects, and a housing bulletin board.

The Office of Student Activities is located in Campus Center East (CCE) on the Rancho Cucamonga Campus. Office hours for fall/spring semesters are: Monday-Thursday 8:00am-5:00pm; Friday 8:00am-2:00pm. Students may contact the Office of Student Activities at (909) 652-6589.

### ASSOCIATED STUDENTS

Every currently enrolled credit-class student belongs to the Associated Students of Chaffey College (ASCC), which is governed by the Campus Council. With a membership composed of

seventeen representative Chaffey students, the Campus Council is comprised of two bodies: an Executive body and the Senate. The President of the ASCC serves in the dual role of Student Trustee who serves as liaison between the Chaffey College Governing Board and the student population. The Campus Council holds weekly meetings throughout the academic year. The ASCC campus-wide activities and the Inter-Club Council are supported through the College Services Fee.

## CLUBS AND ORGANIZATIONS

The Office of Student Activities and the Inter-Club Council oversee the activities of all clubs and organizations which have renewed their charters for the current school year, via the submission of annually required forms. Organizations are professional or vocational while others are recreational, cultural, religious, or service-oriented. All student organizations are administered by students for the benefit of students with the assistance of the Office of Student Activities. Each organization is required to have a full-time faculty/staff advisor to be chartered by the Chaffey College District. Clubs and organizations that have been chartered are:

- 909 Breakers
- AMAN/AWOMAN UMOJA
- American Sign Language Club (ASL)
- Anime Club
- Anthropology Club
- Associated Press Club (AP Club)
- Associated Students of Chaffey College (A.S.C.C.)
- Biology Club
- Chaffey Ceramics Club
- Chaffey College Car Club
- Chaffey College Cinema
- Chaffey College Engineering Club
- Chaffey College Feminists
- Chaffey Toastmasters
- Chaffey Veterans Club
- Chinese Club
- Christians at Chaffey College
- Circle K International
- Eco Pirates
- Future Teachers Club
- Glee Club
- Hospitality & Culinary Arts Club
- Kappa Sigma Nu
- Magic Club
- Men in Nursing
- Multicultural Club
- Muslim Student Association
- Pen Empire
- Pre-Med Society (PMS)
- Puente Club
- RE: Active
- S.A.F.E.
- Short and Sweet
- Society of Cultural Acceptance
- Sociology Club
- Spanish Club

- The Buddhism Club
- The Chemistry Club
- The Club of Secular Understanding
- The Gay-Straight Alliance
- The Philosophy Club
- (u)ntitled (The Wignall Museum Art Organization)
- Vegan Power
- Video Game Development Club

## FOOD PANTRY

The mission of Chaffey's Food Pantry is to provide non-perishable foods for current Chaffey College students in need. Our motivation is based on a compassionate hand out and hand up as we respect the dignity of each student we serve. For information about food distribution dates, times, and locations, contact the Office of Student Activities at (909) 652-6590.

## STUDENT SERVICES

### ADMISSIONS AND RECORDS OFFICE

The Admissions and Records Office provides a wide range of services to students and members of the community. The office provides general information, including but not limited to:

- Admission application processing
- Registration assistance
- Residency determination for tuition purposes
- Processing of requests for official transcripts
- Enrollment verification
- Payment of fees
- Degree conferral and issuing of diplomas/certificates
- Unit evaluations
- Photo ID services

The Admissions and Records Office serves as the official custodian of records and, as such, maintains student academic records of courses taken, units attempted, units earned, grades, grade points, graduation dates, military credit, non-credit enrollment and other data. Community services academic history is only maintained from Fall 1999 forward.

The Admissions and Records Office also provides computers for student use located in the lobby of the Student Services and Administration building. These computers provide access to the student portal for students to register, order official transcripts, and print unofficial transcripts, final grades, and class schedules.

Most services are also available online through MyChaffey portal.

## BOOKSTORE

The Rancho, Chino, and Fontana Campus stores provide a wide range of services to students and members of the community. Each location has new and used textbooks, electronic books (e-books), textbook rentals, as well as a large selection of snacks, drinks, prepackaged lunch items, apparel, gift items, art materials, and school and office supplies. The Stores offer online textbook ordering and year round buy-back of textbooks. Some of the other services include Omnitrans bus passes, incoming and outgoing fax services, postage stamps, discounted movie and amusement park tickets, international student ID cards (ISIC), and campus gift cards. Additional details are provided at [books.chaffey.edu](http://books.chaffey.edu). The Chaffey College Bookstore is a primary scholarship sponsor and is proud to offer employment opportunities to many Chaffey College students. All residual proceeds benefit Chaffey College and its students.

### CAREER CENTER AND STUDENT EMPLOYMENT OFFICE

The Career Center is located on the Rancho Cucamonga campus in MACC-203. The Career Center offers career counseling, assessments, and other career planning resources. Professional career counseling is available to assist Chaffey College students, alumni, and members of the community in formulating their career goals. The Career Center also provides workshops on a variety of career-related topics (viewable at [www.chaffey.edu/careercenter/calendar](http://www.chaffey.edu/careercenter/calendar)). For more information, contact the Career Center at (909) 652-6511 or visit [www.chaffey.edu/careercenter](http://www.chaffey.edu/careercenter).

The Student Employment Office manages the Chaffey Connect online career services portal and offers a variety of employer services to local organizations including job announcements and on-campus recruiting opportunities. This office also serves as the personnel office for all on-campus student positions and provides assistance with hiring paperwork, employment verifications, and trainings. All new student employees must complete their personnel documents and submit them to this office prior to their first day of work. The Student Employment Office is located within the Career Center, in MACC-203, and can be contacted during normal business hours at (909) 652-6511.

### Student Employment Program Eligibility Requirements

Chaffey College is a learning-centered environment where student success is highly valued, supported, and assessed. As such, the Student Employment Office monitors the academic success of current student employees and enforces the following procedures:



To apply for student employee positions, new and returning students must be enrolled in at least 6 units during fall or spring semesters, or 3 units if applying during a summer session. Continuing students must be enrolled in at least 6 units during fall or spring semesters to apply (NOTE: summer enrollment is not required unless prior spring enrollment was less than 6 units). Applicants must also have a cumulative GPA of at least 2.0 at the time of application. Students with no prior college coursework are exempt from the cumulative GPA requirement.

While employed, student employees must maintain enrollment in at least 6 units during fall and spring semesters (summer enrollment is not required) and a cumulative GPA of at least 2.0. Failure to maintain the required enrollment and/or GPA requirement will result in termination of the student employee's position.

#### **Chaffey Connect – Online Career Services Portal**

The Chaffey Connect system is an online career services portal that provides access to dozens of on- and off-campus job postings, employer profiles, a resume and cover letter builder, a career exploration tool, a digital career resource library, and an online career event calendar. Students may register and access the system at [www.chaffey.edu/chaffeyconnect](http://www.chaffey.edu/chaffeyconnect).

#### **Cooperative Education – Work Experience**

Cooperative Education courses enable students to earn elective units for their job, internship, or volunteer work. Cooperative Education can also help students make effective career choices, expand their learning on the job, and gain lifetime career development skills. For further information, call (909) 652-6190.

#### **CHILD DEVELOPMENT CENTER**

The Chaffey College Child Development Center located at the Rancho Cucamonga Campus provides low cost, high quality child care services for children.

The Center is licensed by the State of California, Title 22, and provides subsidized childcare services through the State Department of Education, Early Education and Support Division, Title V funding. Parents who are eligible for free or reduced child care services will pay fees according to a sliding fee scale provided by the State Department of Education. The center participates in the Child and Adult Care Food Program (CACFP) offered by the U.S. Department of Agriculture (USDA) and serves meals at no separate charge to all enrolled children. The maximum group size in the preschool program is 24 children and the adult/child ratio is 1:8. The maximum group size in the toddler program is 12 children. The adult/child ratio is 1:4.

The Center has an open door policy which encourages all parents to participate in the Center classrooms.

The Child Development Center welcomes all children regardless of sex, race, religion, ethnicity, national origin or ability. The curriculum is based on interest and individual needs of the children and provides a flexible framework to support the growth of each child. Child care services are offered to students, staff, faculty and community families. The Center is opened Monday through Friday 7:00am to 5:00pm.

The Child Development Center's mission is:

- To provide high quality, developmentally-appropriate child care and educational experiences to children
- To support Chaffey College students in their educational and vocational goals
- To provide training and employment to individuals seeking careers working with children and families

Through the apprentice program, the Chaffey College Child Development Center offers employment opportunities to students enrolled in child development classes. The purpose of the apprentice program is to help students gain work experience needed to obtain a child development permit which is required for employment in state and federally funded programs. Employment applications are available online at [www.chaffey.edu/childctr/index.shtml](http://www.chaffey.edu/childctr/index.shtml) or at the Child Development Center. This institution is an equal opportunity provider and employer. Employment applications are accepted throughout the semester.

Students enrolled in various child development courses may complete their assignments in the Child Development Center program. Pediatric Nursing, Psychology, and Food Service Management courses utilize the Child Development Center as a field of placement site. For information on fees, enrollment procedures, or job openings please call (909) 652-6875.

#### **COUNSELING DEPARTMENT**

The Counseling Department offers students information on all academic and vocational programs at Chaffey College. Counseling services include assessment and orientation for new and returning students, how and when to prepare for transfer to a four-year college or university, evaluation of course work taken at other colleges, applications for graduation and for certificates, processing of waivers and petitions and referrals to other agencies on campus and in the community. The Counseling Department offers valuable resources for students' questions and concerns.

For information regarding services available relating to career planning, see the heading "Career Center."

The Chaffey College Chino and Fontana Campuses are also staffed with counselors who provide educational, career, and personal counseling. For more information contact the Chino Campus at (909) 652-8000 or the Fontana Campus at (909) 652-7400.

#### **DISABILITY PROGRAMS AND SERVICES (DPS)**

Chaffey College maintains a strong commitment to serving people with all types of disabilities who desire postsecondary education. The goal of DPS is to provide equal access to education for those students. DPS emphasizes independence and self reliance, while encouraging the students to become active members of the college community; this active role will foster successful integration into four year colleges/universities and career employment. Participation in DPS is voluntary, and conducted with strict confidentiality. Students are expected to make measurable progress toward their educational goals in order to remain in the program. The array of support services includes, but is not limited to:

- Individual educational planning
- Assistive Technology Center
- Academic/vocational counseling
- On-campus transportation
- Adapted parking spaces
- Campus orientation
- Priority registration
- Course substitution assistance
- Adaptive equipment
- Print enlargement
- Alternative media
- Test-taking facilitation
- Reader and note taking services
- Liaison and referral services
- Counseling
- Testing for possible inclusion in Learning Disabilities Program

DPS makes alternate formats of instructional text and video available to qualified students. Formats available are Braille, Electronic Text (E-Text), and Closed Captioning. Students needing an alternate format text or video that is required for a course in which they are or will be enrolled should contact the DPS Office as soon as the need is known, as specific requirements and lengthy acquisition timelines apply. Students are strongly encouraged to also meet with their instructors to determine accessibility of the course material.

In accordance with Section 508 of the Rehabilitation Act of 1973, as amended 29 U.S.C § 792(d), closed captioning of DVDs/videos is available whenever a student has a need and a

captioned version cannot be purchased through the publisher. After permission has been granted by the publisher, one captioned copy of the video will be made in accordance with the appropriate protocols for video captioning and made available to the instructor of the course. The closed captioned instructional videocassettes in the Chaffey College Library video collection have been identified with closed captioning labels on the slipcase. There is a closed captioning note in the bibliographic record for every title; these records appear in the library catalog and the catalog is accessible online at [www.chaffey.edu](http://www.chaffey.edu).

DPS also offers specialized classes to meet the specific needs of students with disabilities. Courses are based on individual student need and may include the following:

- Cognitive retraining
- Guidance
- Self-Advocacy
- Basic Academic Skills
- Assistive Technology
- Study Skills

The DPS Office is currently located in Campus Center West (CCE -14) at the Rancho Cucamonga Campus. The hours are:

**Monday through Friday**

7:30 a.m. - 4:30 p.m.

DPS counselors also are available at the Chino and Fontana campuses. Appointments can be made at any location by calling (909) 652-6379. The toll free number for the California Relay Service is 1-800-735-2929. For more information, visit the DPS website at [www.chaffey.edu/dps](http://www.chaffey.edu/dps).

In addition to the above facilities and services, Chaffey College offers a program for students with disabilities located off-campus at the Learning Development Center. The goal of this program is to provide an academic and transitional work program for students leading to competitive employment. The academic component focuses on, but is not limited to, the following subjects:

- Vocational skills training
- Career exploration and preparation
- Job-seeking skills
- Employment applications
- Resumé writing
- Interview techniques
- Work attitudes
- Job placement
- Job retention
- Job club

Vocational skills classes are used as a means to teach, observe, and assess appropriate work behaviors, responsibility, speed, accuracy, stamina, and other skills necessary for successful job placement.

Interested persons are invited to phone the Learning Development Center at (909) 652-7675 or visit the facility located at 13106 Central Avenue, Chino, CA 91710.

DPS also offers an instructional program in basic life skills for individuals with developmental disabilities who are employed at Diversified Industries, a supported work environment located in Montclair. For further information regarding this program, please contact the DPS Office at (909) 652-6379 or Diversified Industries at (909) 982-4090, ext. 21.

**EXTENDED OPPORTUNITY PROGRAMS AND SERVICES (EOPS)**

The Extended Opportunity Programs and Services (EOPS) office is located in MACC 205. EOPS is a state-funded program intended to provide support services to financially and educationally disadvantaged students. Program participants are eligible for priority registration, academic and personal counseling, peer advisement, and assistance buying books. Bilingual staff members are available to assist students who speak limited English. Additional benefits and services are available through the CARE program to EOPS students who are single parents with children under fourteen years of age and receiving public assistance.

Further information and eligibility requirements may be obtained by calling the EOPS office at (909) 652-6349.

**FOOD SERVICES**

The Chaffey Dining Commons on the Rancho campus in the MACC Building is a top notch operation offering a variety of high quality menu options, name brands, and a welcoming environment. Additionally, the bookstore on each Chaffey campus offers a variety of snacks, beverages, sandwiches, hot and healthy food items, as well as coffee and/or smoothies. Food services are also available on the Rancho campus at the Panther Express (located near the HS Building) and the Panther Cub Café (located in the Sports Center). Food Service gift cards are available for purchase at any of these locations.

**GPS CENTER (Guiding Panthers to Success)**

The GPS center supports student planning and achievement by providing assistance with registration, orientation, evaluation of progress on goal (Degree Audit), and workshops on educational planning and college success. The center is staffed by counseling faculty and Success Guides. Walk-in services are available Monday – Friday. GPS Center locations:

Rancho Campus	VSS-111	(909)652-6466
Chino Campus	CHMB-240	(909)652-8030
Fontana Campus	FNFC-121	(909)652-7460

**LEARNING AND EDUCATIONAL DEVELOPMENT**

The Learning and Educational Development (LED) program is assists non-credit students transitioning into credit courses. The purpose of this academic support is to encourage students to complete a certificate program, an associate degree, and/or transfer to a four-year university. LED is a student support service working in conjunction with the Chaffey College Success Centers.

Students may contact the program office at (909) 652- 7407 for further information, location, hours of operation, and appointments.

**LIBRARY/CYBRARY**

The Library on the Rancho Cucamonga Campus and the Cybraries located on the Chino and Fontana Campuses provide services and resources necessary to maintain effective learning programs and empower the diverse student population toward successful goal achievement. We provide reference assistance and navigation to various and carefully chosen information sources. These include book, periodical, video and electronic resources which also support and enhance the cultural and educational needs of the Chaffey College student. The goal of the program is for student learners to leave the library with the information literacy and critical thinking skills they will use as they transfer to upper division university programs or in their pursuit of careers throughout their working lives. The library and Cybraries provide the following resources and services to students, faculty and staff:

- Research/reference center with access to the Internet, electronic indexes, and full text services
- An information access/instruction center for library orientation sessions and workshops
- Assistance from reference librarians in the use of library and information resources in all formats
- An interactive learning center with study table as well as access to networked computers with MS Office
- A quiet study/reading room with individual carrels and group study rooms
- A print collection of books, magazines, and journals (at the Rancho Library only)
- A book request service whereby students can request items in the circulating collections at the Rancho Library to be sent to either Cybrary for pickup
- An instructional video collection (at the Rancho Library only) that has been digitized and is accessible at Chaffey networked terminals in Rancho Cucamonga, Chino, and Fontana.
- A reserve book collection
- An online depository for course documents (eRes)

- 24/7 access to online databases with a wide variety of full-text resources including an extensive collection of eBooks

Contact the Libraries at: (909) 652-6800, Rancho Campus; (909) 652-8115, Chino Campus Cybrary; and (909) 652-7450, Fontana Campus Cybrary. Check our website at [www.chaffey.edu/library](http://www.chaffey.edu/library) for current hours and more detailed information on our resources and services.

### STUDENT HEALTH SERVICES

Student Health Services is dedicated to assisting students achieve and maintain optimum physical, mental, and emotional health. We are committed to providing quality health care at a reasonable cost.

The Student Health Services team is made up of medical doctors, nurse practitioners, registered nurses, counselors, secretaries, student educators, and student assistants who are trained to assist you with medical information and problems in a professional and confidential manner. Services include first aid, treatment for minor illnesses, health examinations, birth control, family planning, T.B. testing, laboratory testing, consultation regarding health problems, individual and group psychological counseling, and health education resources on numerous topics.

Student Health Services is supported by the health fee paid at the time of registration. There is no charge to consult/visit the office staff including the medical doctors and nurse practitioners. There are, however, minimal fees for additional services, such as lab tests, immunizations, and prescription medications.

Pursuant to section 76355 of the Education Code, students who can provide documentation of active membership in a religious organization that relies exclusively on prayer for healing may request to have the Health Fee waived. Applications for waiver are available in the Student Health Services office. Students may have their health fee waived if they are approved for a Board of Governors Fee Waiver. Your medical records and all discussions with the student health services staff are completely confidential. Records are only released with written consent of the student, unless required by law.

Students are encouraged to visit the office, located in the MACC-202 at the Rancho Cucamonga Campus. Usual clinic hours are:

**Monday - Thursday**  
**8:00 a.m. to 4:00p.m.**

**Friday**  
**8:00 a.m. to 2:00 p.m.**

For more information or to schedule appointments, call (909) 652-6331.

### STUDENT SUCCESS CENTERS

As part of the Basic Skills Transformation Initiative, Chaffey College created Student Success Centers. The Centers offer tutorials, workshops, learning groups, and computer access to assist students in their academic development and success.

Discipline-specific centers are designed to help students with particular subject area courses and skills. Multidisciplinary Centers are set up to serve students in all subject disciplines. Hours for each Success Center are listed in the schedule of classes. Students may also contact the Success Centers by visiting or calling. The location and telephone number for the Success Centers are listed below.

#### LANGUAGE SUCCESS CENTER

BEB Building, 1st Floor  
(909) 652-6907  
(ESL and Modern Languages)  
(909) 652-6820 (Reading and Writing)

#### MATH SUCCESS CENTER

Math Building, Room 121 • (909) 652-6452

#### MULTIDISCIPLINARY SUCCESS CENTER

Library • (909) 652-6932

#### CHINO SUCCESS CENTER

CHMB-145  
(909) 652-8150

#### FONTANA SUCCESS CENTER

FNFC-122  
(909) 652-7408

### TRANSFER CENTER

The Transfer Center provides information and resources to help students continue their education after Chaffey College. The center maintains a library of college catalogs and reference material, provides access to the Internet and specialized software programs for college research and applications, hosts college representatives for individual appointments with students, sponsors transfer-related workshops, and schedules campus visits and college fairs. All services are free and available to any Chaffey student.

The Transfer Center staff welcomes the opportunity to assist students considering transfer to four-year colleges. The center is located in the Student Services/Administration Building, Room 120 on the Rancho Cucamonga Campus. Usual office hours are Mondays and Thursdays 7:30am-7:00pm, Tuesdays and Wednesdays, 7:30am-4:30pm and Fridays 7:30am-2:00pm. More information can be obtained by calling (909) 652-6233 or visiting the Transfer Center on Chaffey's website [www.chaffey.edu/transfer](http://www.chaffey.edu/transfer).

### VETERANS RESOURCE CENTER

Chaffey College is grateful for the contributions made by members of the United States armed services, both at home and abroad. The Veterans Resource Center provides information on programs and services such as; Veterans Education Benefits, the local VA office, degree and certificate requirements, transfer options, linkage to community resources, a veterans club and more. The center is focused on camaraderie, academic success, and health and well being.

The center is staffed by veterans serving other veterans. The atmosphere is welcoming and offers a relaxing environment for veterans and their families. The center is located in the AD Building Room 125 on the Rancho Cucamonga campus. More information can be obtained by calling (909) 652-6235 or visiting us on the web at [www.chaffey.edu/vets](http://www.chaffey.edu/vets).

### WELCOME CENTER

The Welcome Center at Chaffey College is designed to provide a warm welcome to new, continuing and prospective students. The Center makes available valuable information to simplify and enhance your experience at Chaffey College as it relates to getting to know the campus and all of its rich resources.

The Welcome Center is located on the first floor of the Student Services Administration Building (SSA). Office hours are generally Monday and Thursday 7:30 am to 7:00 pm, Tuesday and Wednesday 7:30 am – 4:30 pm and Fridays 7:30 am – 2:00 pm.

# POLICIES AND REGULATIONS

## ACADEMIC FREEDOM

The District is committed to academic freedom, but recognizes that academic freedom does not allow sexual harassment or any other form of unlawful harassment or discrimination. The lecture, content, and discourse that are an intrinsic part of the course content shall, in no event, constitute sexual harassment or other form of unlawful harassment or discrimination. It is recognized that an essential function of education is a probing of received opinions and an exploration of ideas that may cause some students discomfort. It is further recognized that academic freedom ensures the faculty's right to teach and the student's right to learn. Finally, nothing in this policy shall be interpreted to prohibit bona fide academic requirements for a specific program, course or activity.

## ACADEMIC INTEGRITY (CHEATING)

Integrity is an essential component of the student academic experience. The academic evaluation a student receives for a course becomes a permanent college record and it is critical that such records be accurate and consistent. The integrity students learn and exhibit at the college will be a model for the professional integrity they practice when they complete the college work. Accordingly, Chaffey College has classified academic dishonesty into the following categories:

- Cheating
- Plagiarism
- Unauthorized Collaboration
- Facilitating Academic Dishonesty
- Interference or Sabotage
- Fabrication
- Retaliation

The entire policy is available in the Student Handbook and can be obtained in the Student Activities Office in Campus Center East (CCE) on the Rancho Campus or can be accessed online at [www.chaffey.edu/student\\_handbook](http://www.chaffey.edu/student_handbook).

## BEHAVIOR CODE

All members of the Chaffey College community are expected to behave in an ethical and moral fashion, respecting the human dignity of all members of our community and resisting behavior that may cause danger or harm to others which shall include, but not limited to, violence, theft, or bigotry. All members of the Chaffey College community are expected to observe established standards of scholarship and academic freedom by respecting the intellectual property of others and by honoring the right of all students to pursue their education in an environment free from harassment and intimidation. The entire policy is printed in the Student Handbook and can be obtained in the Student Activities Office in Campus Center East (CCE) on the Rancho or by visiting our website at [www.chaffey.edu/student\\_handbook](http://www.chaffey.edu/student_handbook).

## COMPUTER USE

Chaffey College owns and operates a network and a variety of computer systems for use by its faculty, students, and staff. Chaffey College encourages the use of its network and computer systems for education, academic development, and other approved purposes. When using Chaffey College network and computer systems, all users are required to abide by the policy established by the Governing Board and the associate procedures and to use the system in an ethical and lawful manner.

Chaffey College does not currently block access to the Internet to students without a student ID card. Chaffey College reserves the right to employ filters and/or software to limit access to undesirable sites and/or unsolicited materials.

## DECLARACIÓN DE OPORTUNIDAD EQUITATIVA

### No-discriminación y Prohibición de Acoso

El distrito escolar del colegio comunitario Chaffey está afirmativamente comprometido a proporcionar igualdad de oportunidades educativas y laborales. Este compromiso se encuentra en nuestras políticas educativas, en políticas y prácticas de personal y en el trato de empleados, estudiantes y público en general. El Distrito y toda persona que represente al Distrito deberá proporcionar igualdad de oportu-

nidades de empleo y oportunidades educativas independientemente de raza, color, nacionalidad, ascendencia, religión, credo, sexo, edad (más de 40), discapacidad física (incluyendo el VIH y el SIDA) o discapacidad mental, estado civil, condición médica (incluyendo el cáncer y características genéticas), orientación sexual, o rango militar como veteranos de la época de Vietnam, o la percepción de que una persona tenga una o más de las características anteriores.

De conformidad con los Reglamentos del Título IX, el distrito ofrece igualdad de oportunidades académicas, profesionales y extracurriculares independientemente de sexo/ género de la persona. El Coordinador del Título IX, Dr. Eric Bishop, puede ser contactado al teléfono (909) 652-6502, correo electrónico [eric.bishop@chaffey.edu](mailto:eric.bishop@chaffey.edu) o en la siguiente dirección: 5885 Haven Avenue, Rancho Cucamonga, CA 91737. El distrito, autorizado bajo la ley federal para inscribir a estudiantes extranjeros e inmigrantes y, de conformidad con los reglamentos del título 5, afirma que la falta de conocimientos del idioma Inglés no será un obstáculo para la admisión y participación en los programas de este distrito escolar.

Las personas en busca de información y/o respuestas a presuntos actos de discriminación ilícita, represalias o acoso deben ponerse en contacto con nuestra oficial encargada de supervisar la implementación de estas regulaciones, Susan Hardie, Director de Recurso Humano al teléfono (909) 652-6531, correo electrónico [susan.hardie@chaffey.edu](mailto:susan.hardie@chaffey.edu), o en la siguiente dirección: 5885 Haven Avenue, Rancho Cucamonga, CA 91737.

### Política de Prevención de Acoso Sexual

Es política del distrito escolar del colegio comunitario Chaffey proveer para todos, los estudiantes y empleados, una educación, empleo y medio ambiente libre de todas las formas de explotación, acoso, intimidación o asedio sexuales no deseados, solicitudes de favores sexuales, o otra conducta física, verbal, visual o comunicaciones de carácter sexual prohibidas por el Acuerdo para Empleos y Vivienda Justa de California, el Código de Educación de California y las reglas, normas, estatutos y leyes federales y estatales que prohíben el acoso sexual y represalias.

Este distrito escolar se opone enérgicamente al acoso sexual y expresamente prohíbe el acoso sexual de sus estudiantes y empleados por catadráticos, directivos, personal, estudiantes o miembros del público en general. El colegio



Chaffey tomará las medidas apropiadas para prevenir, corregir y, si es necesario, disciplinar cualquier comportamiento inadecuado.

Cualquier acoso sexual debe ser inmediatamente comunicado a nuestro oficial encargado de supervisar la implementación de estas regulaciones, Susan Hardie, Director de Recurso Humano, al teléfono (909) 652-6531, correo electrónico [susan.hardie@chaffey.edu](mailto:susan.hardie@chaffey.edu), o en la siguiente dirección: 5885 Haven Avenue, Rancho Cucamonga, CA 91737, o a cualquier decano, director o gerente quien de forma inmediata deberá referirlo al oficial encargado o designado. Deben tomarse todas las medidas necesarias para asegurar la confidencialidad.

### Libertad Académica

Este distrito escolar está comprometido a fomentar la libertad académica, pero reconoce que la libertad académica no permite acoso sexual o cualquier otra forma de discriminación o acoso ilegal. La cátedra, su contenido y su discurso, que son una parte intrínseca del contenido del curso, no podrán en ningún caso promover acoso sexual u otra forma de discriminación o acoso ilegal. Se reconoce que una función esencial de la educación promueve la libertad de opinión y la exploración de ideas que pueden causar molestia a algunos estudiantes. Se reconoce también que la libertad académica garantiza el derecho de enseñar de la cátedra y el derecho de aprender del estudiante. Por último, nada en esta póliza será interpretado a prohibir la buena fe de requisitos académicos para un programa específico, curso o actividad.

### Acuerdo Americano para Discapacitados de 1990

El Acuerdo Americano para Discapacitados (ADA) de 1990 prohíbe la discriminación contra la gente con discapacidades en el empleo, servicios públicos e incluso transporte público y privado, alojamientos públicos, y servicios de telecomunicaciones.

Los servicios de apoyo para estudiantes con discapacidades son proporcionados por el departamento de Programas de Discapacidad y Servicios. Si necesita información sobre servicios para estudiantes con discapacidades póngase en contacto con nuestra oficina al teléfono (909) 652-6379 o TDD/TTY (909) 466-2829. También puede llamar gratuitamente al Servicio de Relevo de California a los números 1-800-735-2929 o 1-877-735-2929 para usuarios TDD/TTY. Los empleados (catedráticos, no-catedráticos, o asistente de estudiantes) que requieren de alojamientos deberán ponerse en contacto con la Director de Recurso Humano, Susan Hardie, al teléfono (909) 652-6531, o al correo electrónico [susan.hardie@chaffey.edu](mailto:susan.hardie@chaffey.edu).

### Sección 504: Ley de Rehabilitación

De acuerdo con la Sección 504 de la Ley de Rehabilitación, el colegio Chaffey cumple con la regulación que protege que "ninguna persona con discapacidad" será excluida de la participación en programas y servicios ofrecidos por el Colegio "únicamente por razones de discapacidad." Amy Nevarez, Decana de Orientación y Matricula, y Guillermo Miller sirven como coordinadores de la ADA 504/508 y pueden proporcionar información y contestar preguntas en cuanto al acceso para estudiantes con discapacidades. Ellos pueden ser contactados en la siguiente dirección: 5885 Haven Avenue, Rancho Cucamonga, CA 91737; o por teléfono: Amy Nevarez (909) 652-6020, correo electrónico [amy.nevarez@chaffey.edu](mailto:amy.nevarez@chaffey.edu); Guillermo Miller (909) 652-6390, correo electrónico [william.miller@chaffey.edu](mailto:william.miller@chaffey.edu).

### Sección 504/508: Procedimiento de Queja

Si un estudiante tiene una queja bajo las provisiones de la Sección 504 de la Ley de Rehabilitación, el estudiante deberá primero contactar al coordinador de Chaffey del ADA 504/508 al teléfono (909) 652-6379, o al correo electrónico [dps.staff@chaffey.edu](mailto:dps.staff@chaffey.edu). El coordinador de la ADA 504/508 se pondrá en contacto con todas las personas/partidos implicados e intentará encontrar una solución. Si la queja no puede ser resuelta dentro de los siguientes diez días laborales, el reclamante puede entonces presentar una queja formal con Susan Hardie, Director de Recurso Humano, al teléfono (909) 652-6531, o al correo electrónico [susan.hardie@chaffey.edu](mailto:susan.hardie@chaffey.edu).

## DISCIPLINARY AND GRIEVANCE APPEAL PROCEDURES

The student grievance policy and procedure guidelines and appeal hearings information are found in the Chaffey College Student Handbook which is available in the Student Activities Office in Campus Center East (CCE) on the Rancho campus or by visiting our website at [www.chaffey.edu/student\\_handbook](http://www.chaffey.edu/student_handbook).

## OPEN COURSES

It is the policy of this district that, unless specifically exempted by statute, every course, course section or class, the average daily attendance of which is to be reported for state aid, wherever offered and maintained by the district, shall be fully opened to enrollment and participation by any person who has been admitted to the College and who meets such prerequisites as may

be established (Title 5, sections 51006 and 55003).

Courses and/or course sections designated for firefighters, law enforcement, prisoners, and students participating in cohort instruction may have restricted enrollment (Title 5, section 58051).

## REGULATIONS AND STUDENT COMPLIANCE

Civil law and district policies give the college student a number of rights on campus that non-students do not enjoy. Similarly, the body of people who work and go to classes at Chaffey do so in the spirit of community, a fact which imposes responsibilities of college citizenship.

The Governing Board of Chaffey College has established rules and regulations governing the behavior of students and penalties for violations thereof, as required by the California Education Code Section 22635 of every community college.

Students are responsible for compliance with the regulations published in this catalog, in the Schedule of Classes, in the Student Handbook, and departmental rules and regulations. Student clubs are responsible for compliance with the Club Handbook.

## SMOKING POLICY

Smoking of any form of tobacco or non-tobacco products is prohibited inside of any building, including restrooms and corridors; within 20 feet of a main exit, entrance, or operable window of any college-owned, leased, or operated buildings; and in any college-owned, leased, or operated vehicles.

## STATEMENT OF EQUAL OPPORTUNITY

### Non-Discrimination and Prohibition of Harassment Policy

The Chaffey Community College District is committed to providing equal educational and employment opportunity. The District affirms its commitment with policies that include fair and equitable treatment of students and employees, and prohibits discrimination in its admission, access, and treatment in College programs and activities, and application for and treatment in College employment on the basis

of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or status as a Vietnam era veteran, or because he/she is perceived to have one or more of the foregoing characteristics or based on association with a person or group with one or more of these actual or perceived characteristics.

In accordance with Title IX regulations, the District offers equal academic, occupational, and extracurricular opportunities regardless of the sex/gender of the individual. The Title IX coordinator, Eric Bishop, Interim Vice President, Student Services, may be contacted at (909) 652-6502, email [eric.bishop@chaffey.edu](mailto:eric.bishop@chaffey.edu), or 5885 Haven Avenue, Rancho Cucamonga 91737. The District, authorized under federal law to enroll non-immigrant and alien students, and, in accordance with Title 5 regulations, affirms that the lack of English language skills will not be a barrier to admission and participation in the District's programs.

Persons who seek information and/or resolution of alleged acts of unlawful discrimination, retaliation, or harassment are directed to contact the District's Compliance Officer, Susan Hardie, Director, Human Resources, Chaffey College, 5885 Haven Avenue, Rancho Cucamonga, CA 91737-3002; telephone (909) 652-6531, email [susan.hardie@chaffey.edu](mailto:susan.hardie@chaffey.edu)

### **Sexual Harassment Policy**

It is the policy of the Chaffey Community College District to provide for all students and employees, and educational, employment, and business environment free of all forms of harassment, exploitation, intimidation, or unwelcome sexual advances, requests for sexual favors, or other verbal, visual, or physical conduct or communications of a sexual nature as defined and otherwise prohibited by the California Fair Employment and Housing Act, California Education Code, and State and Federal rules, regulations, statutes and laws prohibiting sexual harassment and retaliation.

The District is strongly opposed to sexual harassment and expressly forbids sexual harassment of its students and employees by faculty, managers, staff, students or members of the general public. The College will take whatever appropriate action to prevent, correct, and, if necessary, discipline inappropriate behavior.

Sexual harassment shall be immediately reported to the District's Compliance Officer, Susan Hardie, Director of Human Resources, Chaffey College, 5885 Haven Avenue, Rancho Cucamonga, CA 91737-3002; telephone (909) 652-

6531, email [susan.hardie@chaffey.edu](mailto:susan.hardie@chaffey.edu) or to any dean, director, or manager for immediate reporting to the District's Compliance Officer, or designee. Every effort will be made to ensure that confidentiality is maintained.

### **Americans with Disabilities Act of 1990**

The Americans with Disabilities Act (ADA) of 1990 prohibits discrimination against people with disabilities in employment, public services including public and private transportation, public accommodations, and telecommunications services.

Support services for students with disabilities are provided through Disability Programs and Services. Anyone needing information about services for students with disabilities should contact this office at (909) 652-6379 or TDD/TTY (909) 466-2829. The toll free numbers for the California Relay Service are 1-800-735-2929 or 1-877-735-2929 for TDD/TTY users. Employees (faculty, non-faculty, or student worker) requiring accommodations should contact the Director of Human Resources, Susan Hardie, at (909) 652-6531, email [susan.hardie@chaffey.edu](mailto:susan.hardie@chaffey.edu).

### **Section 504—Rehabilitation Act**

In accordance with Section 504 of the Rehabilitation Act, Chaffey College abides by the regulation that "no otherwise handicapped individual" shall be excluded from participation in programs and services offered by the College "solely by reason of the handicap." Amy Nevarez and William Miller serve as 504/508/ADA Coordinators and may provide information and answer questions regarding access for students with disabilities. They may be reached at Chaffey College, 5885 Haven Avenue, Rancho Cucamonga, CA 91737-3002; telephone Amy Nevarez at (909) 652-6020, email [amy.nevarez@chaffey.edu](mailto:amy.nevarez@chaffey.edu), or William Miller at (909) 652-6390, email [william.miller@chaffey.edu](mailto:william.miller@chaffey.edu).

### **Section 504/508 Complaint Procedure**

If a student has a complaint under the provisions of Section 504 of the Rehabilitation Act, the complaining party should first discuss the complaint with the individual(s) involved or with the Chaffey College 504/508 and/or the ADA Coordinator. The 504/508, ADA Coordinators will contact all parties concerned, if appropriate, and attempt to reach resolution. Contact: (909) 652-6379, or [dps.staff@chaffey.edu](mailto:dps.staff@chaffey.edu). If the complaint cannot be resolved within ten working days, the complainant may then proceed to file a formal complaint with the Office of Human Resources, Susan Hardie, Director of Human Resources, at (909) 652-6531, email [susan.hardie@chaffey.edu](mailto:susan.hardie@chaffey.edu).

## **STUDENT PRIVACY RIGHTS AND ACCESS TO RECORDS**

In accordance with the Family Educational Rights and Privacy Act (FERPA), Chaffey College does not release student record information without the written consent of the student or under judicial order, except:

- A. To officials and employees of the District who have a legitimate educational need to inspect the record.
- B. To a member of the college's Governing Board who has a legitimate educational need to inspect the record.
- C. To a person employed by, or under contract to, the District to perform a special task, such as an attorney or auditor.

The law allows the College to release student directory information, except when students have specifically requested that directory information be kept confidential. Directory information may be released by exception upon determination of the Superintendent/President, the Associate Superintendent of Instruction and Institutional Effectiveness, or the Director of Admissions and Records that such release is appropriate and not likely to put students at risk.

Chaffey College designates the following as directory information: name, address, phone number, dates of attendance, major field of study, awards and degrees received, most recent institution attended, participation in official college activities and sports, weight and height (for members of athletic teams), and part-time and/or full-time enrollment status. Students must specifically request non-release of their directory information by submitting a Student Update Form. Student Update Forms are available on the Chaffey website at [www.chaffey.edu](http://www.chaffey.edu) or in the Admissions and Records Office. Requested actions will be effective within 5 working days.

### **SUBJECT TO CHANGE**

All Chaffey College policies, regulations and courses are subject to change without notice at the discretion of the Governing Board.

## **STUDENT RIGHT-TO-KNOW**

In accordance with the Code of Federal Regulations, Title 34, Part 668, Sections 668.41 through 668.46 (the "Student Right to Know" Act), institutions participating in any Title IV, HEA program shall make available to current and prospective students, and high school

counselors, the completion and transfer-out rates of first-time, full-time, degree-seeking students who entered the institution on or after July 1, 1996. This information will be posted in all Chaffey College Student Service Offices, and is currently available at <http://srtk.cccco.edu/index.asp>.

## TRAFFIC AND PARKING REGULATIONS

Any motor vehicle classified as such under California State law and parked on the Rancho Cucamonga, Chino, or Fontana Campuses between the hours of 7 a.m. to 11 p.m. Monday through Friday and 7 a.m. to 3 p.m. on Saturday must display a valid parking decal or parking permit. Permits are not required on Sunday. Parking decals may be purchased at the Rancho Cucamonga, Chino, or Fontana Campuses. Daily parking permits are purchased at dispensers located in parking lots throughout the campus. Vehicles not displaying a valid parking decal or daily parking permit are subject to citation for violation of the Chaffey College District policy, Chapter 7, Paragraph 7.8.17.

No person who has been issued a parking permit shall give, lend or allow any person to use such permit to obtain parking privileges to which he or she is not entitled.

In compliance with California State law, each owner/operator of vehicles operated or parked on Chaffey College property is required to possess a current valid driver's license and current proof of insurance. Each such owner/operator shall furnish this license and proof of insurance to any peace officer/Campus Police Officer/representative upon request.

All persons driving vehicles on the campus are required to comply with the traffic laws of the State of California (Reference: Vehicle Code, Section 670, 21113).

Maximum speed limit on campus is 25 miles per hour, and the maximum speed limit in the parking lots is 15 miles per hour.

No vehicles will be driven on sidewalks, footpaths, lawn, patio or court areas except by special permission of the Chaffey College Department of Public Safety (Reference: Vehicle Code, Section 21113).

Barriers, fences, or posts may be placed at any point deemed necessary for safety or convenience. Removal of these barriers, fences, or posts is grounds for issuance of a citation.

Parking is permitted only in spaces specifically marked, and is prohibited in loading zones, posted areas, or along red curbs. Areas that are not clearly marked for parking are designated as "No Parking" areas.

Backing into parking stalls or taking up more than one parking stall is prohibited. Reserved parking spaces may be used only by vehicles displaying a reserved parking permit. Citations will be issued to those in violation.

Students with physical disabilities must purchase and display a campus parking decal for their vehicle. They may park in specially marked locations, identified by blue ground markings and/or a blue sign. If parked in these locations, they must also display either the DMV handicapped placard, or a permit obtained from the Disability Programs and Services Office.

Visitor parking spaces may be used by those who secure a guest parking pass from the Campus Police Office, or the department in which they are visiting. Neither registered students nor staff members may park in a visitor's space. A citation will result. Limited time parking spaces are strictly monitored and are marked with a green curb. Metered stalls are \$0.25 for every 15 minutes with a limit of one hour. Any person parked in a metered stall must pay the correct fee, even with a valid parking decal.

Violators of the above regulations with regard to traffic and parking are subject to a citation. Continued violations of the above traffic regulations are subject to severe disciplinary action by the College administration.

For more detailed information, consult the Parking and Traffic Regulations brochure available in the Campus Police Office.

## USE OF CAMPUS FACILITIES

### RENTAL OF CAMPUS FACILITIES

Rental of campus facilities provides for the maximum use of the college facilities by students, employees, other educational entities, citizens and citizen groups. The use of district facilities may not interfere with the normal educational activities of the college.

Facility rental procedures and fees may be obtained from the Facility Rentals Office at (909) 652-6182.

### POLICY OF FREE SPEECH: TIME, PLACE, AND MANNER

The purpose of Chaffey College's policy of Free Speech: Time, Place, and Manner is to support the freedom of assembly and freedom of

expression as guaranteed by the Constitution of the United States. Fundamental to these guarantees are the rights of free speech and peaceful assembly. It is also a core education value. Students and other members of the college community shall be free to express their views or to support causes by orderly means that do not disrupt the regular and essential operations of the college. In addition, the college requires members of the community to conduct their expressive activities in a manner that promotes and maintains freedom from intimidation, exploitation, or harassment and does not threaten health or safety. (Education Code Section 76120. Chaffey Procedure 5.6 Speech: Time, Place, and Manner.)

### DISTRIBUTION OF LITERATURE

Permission for distribution of literature on campus is obtained from the Student Activities Office. The following kinds of literature may not be distributed or displayed without the consent of the Student Activities Director: literature advertising off-campus activities sponsored by an individual or group not connected with the college; literature for which there is a charge or donation required or requested, either explicitly or implicitly; literature whose legality is in question. No literature may be displayed or distributed which solicits funds except with the approval of the Student Activities Office. Soliciting is not encouraged. Advertisements by non-student parties are directed to the student newspaper, The Breeze.

Literature which is not in conflict with the above stipulations may be posted and otherwise displayed in the Campus Center complex, and the bulletin boards immediately adjacent to them in the patio area and the Campus Center Student Free Speech Area. Students or student groups wishing to post in other areas of the campus should confer with the Student Activities Office for the policies and procedures governing the areas. No literature may be taped or otherwise affixed to a painted or glass surface. Some bulletin boards in the Campus Center complex have been designated to serve specific functions. When in doubt, the student should contact the Student Activities Office. No flyers may be posted on cars!

### COLLECTION AND RAISING OF FUNDS

Students or faculty members may not be solicited to contribute funds to any organization which is not directly under the jurisdiction of Chaffey College without the express permission of the college administration.

Likewise, no non-student group or individual may collect funds on campus or have campus groups collect for them on campus without prior approval of the college administration.



## ***Race Matters: Culture vs. Biology***

# FACULTY LECTURER OF THE YEAR 2014-2015



## ***Marc Meyer***

Marc Meyer (Professor of Anthropology) is a researcher in human paleontology interested in understanding the evolution of human behavior through the archaeological and fossil record. Marc comes from a family where education took a back seat to the family business, and although he worked full-time driving a truck around New York City he sneaked in classes behind his father's back at Queens College where he earned his BA in Anthropology. When Marc was named valedictorian of Queens College his parents were incredulous, thinking that the selection was erroneous. Marc credits his early academic success to: avoiding sweets; exercising his brain by memorizing 80's music lyrics; and falling in love with Anthropology.

Marc then entered the doctoral program at the University of Pennsylvania, earning his PhD in Biological Anthropology in 2005. Upon graduating he served as an instructor of Human Anatomy at the University of Pennsylvania School of Medicine. After a few years teaching at Penn the winds of change brought Marc to Chaffey College where he has taught various Anthropology courses since 2007.

Marc's archaeological experiences have taken him to places such as Kenya, South Africa, France, Soviet Georgia, Kazakhstan, and the exotic state of Tennessee. Marc has authored several publications on the biology and behavior of our ancient human ancestors including *Australopithecus afarensis* and *Homo erectus*, as well as on the history of science. He is currently collaborating with an international team of scholars who are analyzing one of the oldest human fossils, *Ardipithecus ramidus* (nicknamed *Ardi*).



# COLLEGE PERSONNEL

## GOVERNING BOARD

**Gary L. George**  
*President*

**Paul J. Gomez**  
*Vice President*

**Lee C. McDougal**  
*Immediate Past President*

**Katie Roberts**  
*Clerk*

**Kathleen Brugger**  
*Member*

**Caleb Beaver**  
*Student Trustee/ASCC President*

## ADMINISTRATION

**Henry D. Shannon**  
*Superintendent/President*  
B.A., Harris-Stowe State University  
M.A., Ph.D., Washington University,  
St. Louis

**Lisa Bailey**  
*Associate Superintendent, Business  
Services and Economic Development*  
B.A., Loyola-Marymount University  
M.A., California State University,  
Los Angeles

**Eric Bishop**  
*Interim Vice President, Student Services*  
B.A., M.A., University of La Verne  
Ed.D., University of La Verne

**Jason Chevalier**  
*Dean, Visual and Performing Arts*  
B.A., M.M., California State University,  
Fullerton  
Ph.D., Capella University

**Leonard Crow**  
*Dean, Discipline and Enrollment  
Management*  
B.S., California State Polytechnic  
University, San Louis Obispo  
M.S., California State Polytechnic  
University, Pomona  
Ed.D., Argosy University

**Anthony DiSalvo**  
*Dean, Language Arts  
Interim Dean, Health Sciences*  
M.A., B.A., Rutgers, The State of  
University of New Jersey

**James Fillpot**  
*Dean, Institutional Research and Resource  
Development*  
B.A., M.A., California State University,  
San Bernardino

**Sherrie Guerrero**  
*Associate Superintendent, Instruction  
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A.A., B.A., M.A., San Bernardino Valley College  
B.A., California State University,  
San Bernardino  
M.A., California State University,  
Fullerton  
Ed.D., University of Southern California

**Joy Haerens**  
*Dean, Business and Applied Technology*  
A.A., B.A., M.A., Henderson State  
University, Arkansas

**Laura Hope**  
*Dean, Instructional Support  
Interim Dean, Library/Learning Resources*  
B.A., M.A., California State University,  
San Bernardino

**Teresa Hull**  
*Dean, Chino Campus  
Interim Dean, Fontana Campus*  
B.S., University of Santa Clara  
M.Ed., Indiana State University  
Ed.D., University of La Verne

**Hermelinda "Amy" Nevarez**  
*Dean, Counseling & Matriculation*  
B.A., California State University,  
Long Beach  
M.S., California State University,  
San Bernardino

**Cory Schwartz**  
*Dean, Social and Behavioral Sciences  
Interim Dean, Kinesiology, Nutrition and  
Athletics*  
B.S., University of Nebraska-Lincoln  
M.Ed., University of North Dakota  
Ed.D., Montana State University

**Melanie Siddiqi**  
*Vice President,  
Administrative Affairs*  
A.A., Chaffey College  
B.A., M.B.A., University of La Verne

**Theodore Younglove**  
*Dean, Mathematics and Science*  
B.S., University of California, Riverside  
M.S., University of California, Riverside

## MANAGEMENT

**Patricia Bopko**  
*Director, Financial Aid*  
A.A., Chaffey College  
B.A., California State University,  
San Bernardino  
M.A., University of Redlands

**Patrick Cabildo**  
*Internal Auditor*  
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*Executive Director, Business Services*  
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B.S., University of Redlands

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B.A., M.B.A., California Baptist  
University

**Susan Hardie**  
*Director, Human Resources*

**Hatfield, Rebecca**  
*Interim Supervisor, Bookstore*

**Kathy Lucero**  
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B.A., Cal Baptist University  
M.A., San Jose University

**Kim Mascarenas**  
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B.S., California State Polytechnic  
University, Pomona

**William Miller**  
*Director, DPS*  
B.A., M.A., California State University,  
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**Birgit Monks**  
*Director, Child Development Center*  
Ed.D., Fielding Graduate University  
B.A., M.A., Pacific Oaks College

**Katherine Peek**  
*Director, Student Health Services*  
B.S.N., Azusa Pacific University  
M.S., D.B.A., California Coast  
University

**Janeth Rodriguez**  
*Director, Alumni Relations*  
B.A., M.P.A., California Polytechnic  
University, Pomona

**Rebecca Trawick**  
*Director, Museum Gallery*  
B.S., University of Minnesota

**Anita Undercoffer**  
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## FACULTY

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**Clay, Sandra**

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**Edward “Ted” Collins**

*Associate Professor, Accounting*  
M.B.A., Chapman University

**Collins, Sandra**

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## ADJUNCT FACULTY

In addition to the regular full-time contract faculty, there are in each school qualified adjunct instructors who come from industry, business and other educational institutions to give Chaffey College a faculty with many talents to support a diversified program of offerings demanded and expected of a community college.

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**Blair, John W.**

*English*

**Blakeslee, Florence**

*Music*

**Blakeslee, S. Earle**

*Music*

**Blanchard, William B.**

*Mathematics*

**Boetel, Wilma**

*Nursing, Biological Sciences*

**Booth, Charles J.**

*Director*

**Boring, Eugene B., Jr.**

*Biological Sciences*

**Boul, Mary**

*Nursing*

**Bowers, Miriam H.**

*Librarian*

**Braxton, David**

*Computer Information Systems*

**Brewer-Calvillo, Judy**

*Child Development*

**Briot, Francios**

*French*

**Brindell, Kathleen**

*History*

**Brookins, Dana L.**

*English*

**Brown, Margaret**

*Biological Sciences*

**Calhoun, Clarence C.**

*Dean of Instruction*

**Calhoun, Kenneth G.**

*Biological Sciences*

**Cargill, Charles W.**

*Anthropology*

**Carlson, Robert A.**

*Autobody Repair*

**Carlton, Robert G.**

*History*

**Carrick, William G.**

*Disability Programs & Services*

**Chapman, Elwood N.**

*Business Education*

**Childs, Henry E.**

*Biology*

**Clark, Pearl E.**

*Dean of Students*

**Clarke, Orville**

*Art History*

**Clements, Richard J.**

*English*

**Colbath, George C.**

*Physical Education*

**Contino, Sam**

*Automotive Technology*

**Cook, June**

*Business and Office Technologies*

**Corse, Pauline C.**

*English*

**Creasy, Valdez, Dorothea E.**

*Counseling*

**Davidson, Volena Jones**

*English*

**Davis, Deborah**

*Child Development*

**Davis, Homer W.**

*Communication Arts*

**Davis, Robert L.**

*History*

**Dawson, Katherine**

*Nursing*

**Dawson, Sandra A.**

*Vocational Nursing*

**deDobay, Thomas**

*Music*

**Des Lauriers, Dale A.**

*Biological Sciences*

**des Lauriers, James R.**

*Biological Sciences*

**DeVillers, Linda**

*Psychology*

**Dickey, Marlin L.**

*Geology*

**Dinielli, Michael**

*Dean, Language Arts*

**Downie, Virginia**

*Communication Studies*

**Dysart, Russell D.**

*Geology, Mineralogy*

**Elber, Sylvia**

*Music*

**Erkebaev, E. "Alec"**

*Mathematics*

**Eskew, Benjamin E.**

*English*

**Extale, John Gilbert**

*Business*

**Felsch, Fred O.**

*Aeronautics, Student Advisor*

**Fernandez, Priscilla**

*Reference Librarian*

**Fincher, Donald E., Sr.**

*Radiologic Technology*

**Finnie, Thomas S.**

*Electronics*

**Fisk, Kent**

*Automotive Technology*

**Fleck, Robert J.**

*Art*

**Flores, Christine V.**

*Counseling, EOPS*

**Flory, Vera E.**

*English*

**Flum, Arthur E.**

*Mathematics*

**Frank, Marie G.**

*Home Economics*

**Frost, John S.**

*Electronics*

**Fuller, Douglas**

*Court Reporting*

**Gable, William**

*Physical Education*

**Gatignol, Gilberte F.**

*French*

**Gaugh, Leslie S.**

*Automotive Technology*

**Geiger, C. Fred**

*Chemistry*

**Geisel, Joseph W.**

*Data Processing*

**Gentile, Louis J.**

*Business*

**Gibbens, Loretta**

*English, English as a Second Language*

**Gil, Gustavo**

*Music*

**Gingrich, Jacqueline**

*Reading*

**Glenn, Elmer F.**

*Mathematics*

**Gonzalez, Crispin, Jr.**

*Art*

**Graham, Marian**

*Dental Assisting*

**Greenlaw, Helen M.**

*Physical Education*

**Greever, Margaret Q.**

*Dean, School of Physical, Life, and Health Sciences*

**Gregory, Donald J.**

*Sociology*

**Grimm, Lewis L.**

*Physics, Engineering*

**Grise, Hendrik**

*Art*

**Groneweg, William C.**

*Dean of Admissions and Records*

**Gurich, Louise**

*Court Reporting*

**Hafiz, M. David**

*Dean, Admissions, Records, and Counseling*

**Haney, Gloria**

*English*

**Hardie-Townsend Sandra**

*Child Development*

**Harmon, Wesley L.**

*Counseling, Psychology*

**Haug, Richard L.**

*Computer Science*

**Haven, David F.**

*Biological Sciences*

**Hemenway, Francis P.**

*Interior Design, Home Economics*

**Hernandez, Gene M.**

*Autobody Repair*

**Hernandez, Joe D.**

*Counseling*

**Hicks, Charles**

*English*

**Higbee, R. Eugene**

*Spanish, English*

**Higgins, Julianne**

*Nursing*

**Himaya, Divina C.**

*Philosophy*

**Hindman, Barbara**

*Nursing*

**Hinrichsen, Kenneth C.**

*President*

**Holley, Helen**

*Health Services Specialist*

**Hollenbeck, Charles L.**

*Physics*

**Hollist, Lynn O.**

*Dean, Community Services*

**Horsch, L.J.**

*Social Science*

**Howard, Elaine**

*Office Technology*

**Howard, Gilbert A.**

*Real Estate*

**Hubert, Wayne**

*Dean, Language Arts*

**Huenergardt, Myrna**

*Health Services*

**Hyams, Maureen**

*Vocational Nursing*

**Iaeger, Paul F.**

*Physical Education*

**Jack, Clyde**

*Counseling, Psychology*

**Jahr, Doris**

*Nursing*

**Jaramillo, Luz**

*English, Spanish*

**Jarman, Carol**

*Certified Nursing Assistant*

**Johnson, Catherine E.**

*Theatre Arts*

**Johnson, Eleanor**

*Basic Skills, English*

**Johnson, Lawrence X.**

*Aeronautics*

**Johnson, Mildred**

*Mathematics*

**Jones, Volena**

*English*

**Judd, Wallace C.**

*Law Enforcement*

**Karet, Julia**

*ESL*

**Keenan, Catherine**

*Chemistry*

**Kellogg, Stephen J.**

*Biological Sciences*

**Ketchum, Donald J.**

*Data Processing*

**Killen, Richard R.**

*English*

**Kimbel, Kyle**

*Home Economics*

<b>Koenigshofer, Kenneth A.</b> <i>Psychology</i>	<b>McCall, Arlene</b> <i>Physical Education</i>	<b>Norman, Rosamond</b> <i>English</i>	<b>Purkiss, William</b> <i>Communication Studies</i>
<b>Koyle, Ronald</b> <i>Drafting</i>	<b>McClure, Carol</b> <i>Biological Science</i>	<b>Normand, Thomas</b> <i>Counseling</i>	<b>Raitchel, Janice C.</b> <i>Art</i>
<b>Kuhlmann, Bobbie L.</b> <i>Accounting</i>	<b>McGee, John R., Jr.</b> <i>Correctional Science</i>	<b>Okura, Irene</b> <i>Disability Programs and Services</i>	<b>Ratliff, Gena Vee</b> <i>Business</i>
<b>Lambert, Bonnie</b> <i>Accounting</i>	<b>McPherson, Kenneth W.</b> <i>Cooperative Education</i>	<b>Oliva, Victor R. Jr.</b> <i>Counseling</i>	<b>Reeder, George A.</b> <i>Dance</i>
<b>Latham, Robert</b> <i>Political Science</i>	<b>Menzel, Stephen W.</b> <i>Vice President, Administrative Services</i>	<b>Olivera, Cathy D.</b> <i>Disability Programs and Services</i>	<b>Requa, Marylee</b> <i>Sociology</i>
<b>Lawlor, Joseph P.</b> <i>Director, Instructional Services</i>	<b>Merchant, Harold E.</b> <i>Chemistry</i>	<b>Olivera, Robert</b> <i>Dean, PE/Athletics</i>	<b>Reynolds, Joseph E.</b> <i>French, English</i>
<b>Lightner, Catherine</b> <i>Assoc. Degree Nursing</i>	<b>Metwalli, MaryEllen B.</b> <i>History</i>	<b>Olson, Betty M.</b> <i>Physical Education</i>	<b>Richardson, Evelyn O.</b> <i>Nursing</i>
<b>Lober, Robert M.</b> <i>Astronomy, Mathematics</i>	<b>Michie, Jack</b> <i>Assistant Superintendent, Institutional Development</i>	<b>O'Neill, Maura</b> <i>Philosophy</i>	<b>Rivas, Henry</b> <i>Correctional Science</i>
<b>Lockwood, L. Gordon</b> <i>Radiologic Technology</i>	<b>Miller, Charles S.</b> <i>History</i>	<b>O'Sullivan, R. Timothy</b> <i>English</i>	<b>Roberts, Myron</b> <i>English</i>
<b>Lowman, Judy Ann</b> <i>Geology</i>	<b>Miller, Fred</b> <i>Automotive Technology</i>	<b>Parratt, Lloyd P.</b> <i>Biological Science, Health Science</i>	<b>Robinson, Mary V.</b> <i>Business Education</i>
<b>Luebbers, Emma O.</b> <i>Business</i>	<b>Miller, Ralph H.</b> <i>Life Science</i>	<b>Payne, Clara</b> <i>English</i>	<b>Robinson, W. Dario</b> <i>Lithography</i>
<b>Lyman, Karen</b> <i>Gerontology</i>	<b>Milliken, Daniel B.</b> <i>President</i>	<b>Payne-Jones, Joanna P.</b> <i>Child Development</i>	<b>Rodriguez, Juan A.</b> <i>English as a Second Language</i>
<b>Linn-Watson, TerriAnn</b> <i>Radiologic Technology</i>	<b>Mitchell, Barbara J.</b> <i>History</i>	<b>Peaker, Allis B.</b> <i>English</i>	<b>Romero, Gloria D.</b> <i>English</i>
<b>Madden, Peggy A.</b> <i>English</i>	<b>Montgomery, Mary Ellen</b> <i>Business and Office Technologies</i>	<b>Personius, Darwin N.</b> <i>Aeronautics</i>	<b>Romero, Gloria</b> <i>Director, High School Relations</i>
<b>Mahoney, Andree</b> <i>Art</i>	<b>Mossman, Shirley Nash</b> <i>Interior Design</i>	<b>Pelzer, Inge</b> <i>Executive Assistant to the Superintendent/President</i>	<b>Rose, Bea</b> <i>Philosophy</i>
<b>Malone, Michael</b> <i>English</i>	<b>Mundy, Linda</b> <i>Dental Assisting</i>	<b>Pender, Karen</b> <i>Mathematics</i>	<b>Rose, Florence</b> <i>Psychology, Sociology</i>
<b>Marino, Penny B.</b> <i>Fashion Merchandising and Design</i>	<b>Myers, Edward E.</b> <i>Anthropology, Biology, Physiology</i>	<b>Peters, Thomas</b> <i>Mathematics</i>	<b>Ross, Harley</b> <i>Correctional Science</i>
<b>Martin, Gerald E.</b> <i>English, German</i>	<b>Myers, Milton C.</b> <i>Counseling</i>	<b>Pierce, John W.</b> <i>Drafting, Engineering</i>	<b>Russel, Peter</b> <i>Biological Science</i>
<b>Martin, Woodford</b> <i>Computer Information Systems</i>	<b>Myers, Pauline</b> <i>Counseling</i>	<b>Pinkerton, Frank</b> <i>Assoc. Dean, Library/Learning Resources</i>	<b>Sayles, Carol L.</b> <i>Dean, School of Social and Behavioral Sciences</i>
<b>Martyns, Leonard L.</b> <i>Business</i>	<b>Neece, Cheryl</b> <i>Reading</i>	<b>Pitts, Billie P.</b> <i>Business Education</i>	<b>Schesser, Frankie L.</b> <i>Business</i>
<b>Mason, Jack M.</b> <i>Music</i>	<b>Nehlsen, Carol</b> <i>Business and Office Technologies</i>	<b>Pompura, Sylvia</b> <i>Nursing</i>	<b>Schesser, Robert D.</b> <i>Business</i>
<b>Mather, Leonard S.</b> <i>Counseling, Education</i>	<b>Newton, Ralph J. E.</b> <i>Business Education</i>	<b>Porter, Ralph A.</b> <i>Dean, Educational Services</i>	<b>Schildberg, Jeane</b> <i>Computer Information Systems</i>
<b>Mather, Wiley W.</b> <i>Social Science</i>	<b>Ngo, Boysie</b> <i>Computer Information Systems</i>	<b>Preble, Kipp</b> <i>Professor, Communication Studies</i>	<b>Schindler, Ruth H.</b> <i>Allied Health Coordinator</i>
<b>Mays, R. Juanita</b> <i>Associate Degree Nursing</i>	<b>Noble, Erna Smith</b> <i>Dental Assisting</i>	<b>Punter, Sam C.</b> <i>Administration of Justice</i>	<b>Sellers, Herbert D.</b> <i>Electricity</i>
<b>McAllister, Bernice L.</b> <i>Anthropology, Archaeology</i>			

**Serra, John A.**

*Blueprint Reading and Drafting*

**Seymour, John A.**

*History*

**Shannon, Floyd E.**

*Drafting, Engineering*

**Shannon, Joyce H.**

*Music*

**Sharp, Dawn**

*History*

**Shaw, Marilyn**

*Physical Education*

**Sheats, Terry L.**

*Aeronautic Technology*

**Sheppard, Charles A.**

*Theatre Arts*

**Silliman, Rachel**

*English as a Second Language*

**Simpson, Jean B.**

*Business*

**Simpson, Paul**

*Autobody Repair*

**Smith, Millicent A.**

*Business Education*

**Smith, Phyllis M.**

*Librarian*

**Smith, Robert**

*Art, Photography*

**Smith, Sharlene**

*Disability Programs and Services*

**Snyder, Olof E.**

*Dean of Instruction*

**Snyder, Shirley**

*English*

**Spring, Gardiner W.**

*President*

**Standlee, Leslie H.**

*Counseling*

**Stanford, Mabel**

*Public Information*

**Stanford, William E.**

*Music*

**Stark, Charles H.**

*Aeronautics*

**Stark, Elizabeth A.**

*Counseling*

**Stark, Vesta L.**

*Dental Assisting*

**Starr, Phillip C.**

*Economics*

**Sterba, JoAnn W.**

*Consumer Studies*

**Stetkevich, Orest**

*Athletics, Disability Programs and Services*

**Stewart, Marie Frank**

*Home Economics*

**Stewart, Susan**

*Director, Student Activities*

**Strane, Ralph**

*Theatre Arts, Fine Arts*

**Sumpter, James B.**

*Welding Technology*

**Swihart, Donald D.**

*Chemistry*

**Talton, Marcha**

*Associate Degree Nursing*

**Teitsworth, June**

*Vice President, Student Services*

**Theurer, Gail L.**

*English, German*

**Theurer, Howard**

*Counseling*

**Toister, Robert**

*Mathematics*

**Tolstoy, Peter**

*Biological Sciences, Counseling*

**Tom, Wesley W.**

*Mathematics*

**Torres, Lillian S.**

*Nursing*

**Tschirgi, Roger**

*Counseling*

**Tyler, Marian M.**

*Educational Resources*

**Ulf, Gretchen Lizer**

*Speech*

**Underwood, Martha M.**

*Art*

**Van Riper, Maggie**

*Counseling*

**Vizio, Margaret**

*English*

**Wadsworth, Leo A.**

*Director*

**Waldrop, Mary Lou**

*Home Economics*

**Walker, Jeanne C.**

*English*

**Walker, Lawrence H.**

*Machine Tool Technology*

**Walker, Thomas M.**

*English*

**Wall, Jacqueline**

*Computer Information*

**Warburton, T. Stanley**

*President*

**Weaver, Jesse H., Jr.**

*Speech Communication*

**Webb, Ray O.**

*Mathematics, Physics, Engineering*

**Weiss, Irving S.**

*Real Estate*

**Welsh, Erma**

*Counseling*

**White, Charles C.**

*Mathematics*

**White, Jack L.**

*Physical Science*

**Wilding, Byron**

*Art*

**Williams, Charlene L.**

*Disabled Students Programs and Services, Counseling*

**Wilson, Floyd J.**

*Anatomy, Zoology*

**Winters, Dana S.**

*Assistant Dean, Instructional Services*

**Wiser, Harry D.**

*President*

**Withey, Hettie**

*Social Science*

**Wright, Donald J.**

*English*

**Wright, Elizabeth**

*Home Economics*

**Woods, Ann**

*Educational Resources*

**Woods, Darcel**

*Correctional Science*

**Zimmermann, Muriel**

*Dean, Physical, Life, and Health Sciences*

**Zust, George**

*Machine Tool Technology*



# PHONE DIRECTORY

(All numbers are area code 909)

## RANCHO CUCAMONGA CAMPUS NUMBERS:

Main.....	652-6000
Admissions and Records .....	652-6600
Assessment/Orientation Appts .....	652-6200
Bookstore .....	652-6577
CalWORKs .....	652-6049
Cashier.....	652-6600
Child Development Center.....	652-6875
Counseling.....	652-6200
Extended Opportunity Programs and Services .....	652-6349
Financial Aid.....	652-6199
GPS Center .....	652-6466
Language Success Center	
ESL and Modern Language.....	652-6907
Reading and Writing.....	652-6820
Mathematics Success Center .....	652-6452
Multidisciplinary/Reading Center .....	652-6932
Student Health Services .....	652-6331
Puente Project.....	652-6200
Writing Center.....	652-6820

## CHINO CAMPUS NUMBERS:

Main.....	652-8000
Administration .....	652-8010
Admissions and Records/Cashier .....	652-8001
Assessment/Orientation Appts .....	652-8120
Bookstore .....	652-8170
CalWORKs .....	652-7664
Community Center.....	652-8200
Contract Ed/Customized Training .....	652-7791
Counseling .....	652-8120
Extended Opportunity Progs & Svcs. ....	652-6349
Financial Aid.....	652-8140
GPS Center .....	652-8120
Library/Cybrary.....	652-8115
Multidisciplinary Success Center .....	652-8150

## FONTANA CAMPUS NUMBERS:

Main.....	652-7400
Admissions & Records/Cashier.....	652-7400
Assessment/Orientation Appts.....	652-7400
Bookstore .....	652-6560
CalWORKs .....	652-7485
Counseling.....	652-7460
Extended Opportunity Prog. & Svcs.....	652-7413
Financial Aid.....	652-7417
GPS Center .....	652-7460
Multidisciplinary Success Center .....	652-7408

## DEPARTMENTS

Articulation .....	652-6920
Athletics.....	652-6290
Breeze, The (Student Newspaper) .....	652-6934
Campus Police (non-emergency).....	652-6632
(Emergency – on/off campus) .....	652-6911

Career Center.....	652-6511
Community Education.....	652-6045/6043
Disability Programs & Services.....	652-6379/6380
Discipline .....	652-6510
Distance Education .....	652-6975
Foundation Office .....	652-6545
Health Services .....	652-6331
Honors Program .....	652-6263
International Student Center .....	652-6195
Learning Development Center .....	652-7675
Library .....	652-6800
Lost and Found .....	652-6634
Museum, Wignall Museum of Contemporary Art .....	652-6490
Scholarship Information .....	652-6545/6589
Student Activities .....	652-6589
Student Employment.....	652-6511
Student Government.....	652-6594
Theatre Box Office.....	652-6067
Transfer Center.....	652-6233
Veterans Services .....	652-6611

## SUBJECT AREA/SCHOOL NUMBERS:

Accounting & Financial Services .....	652-6830
Administration of Justice .....	652-6253
Aeronautics (see Aviation Maintenance Tech)	
American Sign Language .....	652-6903
Anthropology.....	652-6253
Arabic .....	652-6903
Art .....	652-6066
Automotive Technology.....	652-6830
Astronomy .....	652-6404
Aviation Maintenance Technology .....	652-6865
Biology.....	652-6404
Broadcasting.....	652-6066
Business/Business Management.....	652-6830
Business & Applied Tech, School of.....	652-6830
Business and Office Technologies .....	652-6830
Chemistry .....	652-6404
Child Development & Education .....	652-6253
Chinese .....	652-6903
Cinema.....	652-6066
Communication Studies.....	652-6903
Computer Information Systems .....	652-6830
Computer Information Systems (CISCO) .....	652-7660
Computer Science.....	652-6830
Correctional Science .....	652-6253
Dance.....	652-6066
Dental Assisting .....	652-6675
Drafting.....	652-6404
Earth Science .....	652-6403
Economics .....	652-6253
Education.....	652-6253
Electricity (see Industrial Electrical Technology)	
Emergency Medical Technician .....	652-6830
Engineering/Engineering Technology .....	652-6403

English.....	652-6902
English as a Second Language .....	652-6903
Fashion, Design and Merchandising.....	652-8010
Fire Technology.....	652-6830
French.....	652-6903
Geography .....	652-6404
Geology.....	652-6403
Gerontology .....	652-6675
Guidance.....	652-6202
Health Sciences, School of.....	652-6695
History.....	652-6253
Hospitality Management .....	652-8010
Humanities.....	652-6253
Industrial Electrical Technology.....	652-7657
Interior Design .....	652-8010
Journalism.....	652-6902
Kinesiology and Nutrition.....	652-6290
Language Arts, School of.....	652-6904
Mathematics .....	652-6403
Mathematics & Science, School of.....	652-6402
Music.....	652-6066
Nursing Assistant.....	652-6675
Nursing (ADN) .....	652-6671
Nursing (VN, ACT) .....	652-8215
Nutrition & Food .....	652-8019
Pharmacy Technician .....	652-6675
Philosophy.....	652-6253
Photography .....	652-6066
Physical Education (see Kinesiology)	
Physics .....	652-6404
Physical Science .....	652-6404
Political Science.....	652-6253
Psychology .....	652-6253
Radiologic Technology .....	652-7606
Reading.....	652-6903
Real Estate .....	652-6830
Social and Behavioral Sciences, School of.....	652-6253
Social Science.....	652-6253
Sociology.....	652-6253
Spanish.....	652-6903
Statistics.....	652-6403
Theatre Arts .....	652-6066
Visual & Performing Arts, School of.....	652-6066

# Chaffey College 2015–2016 Academic Calendar

## Fall Semester 2015

August 17 – December 18

89 service days

Application Period (online with OpenCCC) .....	Begins February 2
Schedule of Classes available on the website .....	June 1
Registration Notification .....	June 29
Registration Period .....	July 13 – August 14
<b>Payment Deadline</b> .....	(For specific details, refer to the payment table and drop process for non-payment in the <i>Schedule of Classes</i> .)
Convocation .....	August 12
Institutional Flex Days .....	August 13 – 14
<b>INSTRUCTION BEGINS</b> .....	<b>August 17</b>
Late Registration .....	August 17-24
ADD CODES required throughout the late registration period	
Deadline to ADD full-term classes .....	August 24
Refund deadline for full-term classes .....	August 31
Census submission for full-term classes due from faculty .....	September 2
Labor Day Holiday .....	September 7
Deadline to DROP full-term classes without a "W" grade .....	September 8
Deadline to DROP full-term classes with a "W" grade .....	November 2
Veterans Day Holiday .....	November 11
Deadline to apply for credit by exam, graduation, certificates .....	November 13
Deadline to ADD open-entry/exit classes .....	November 19
Thanksgiving Holiday (college closed) .....	November 26 – 29
<b>FINAL EXAMINATIONS</b> .....	<b>December 12 – 18</b>
<b>INSTRUCTION ENDS</b> .....	<b>December 18</b>
Winter Recess (college closed) .....	December 24 – January 3
Grades due from faculty .....	January 5
Grades available online .....	January 6

### Registration for Fast Track Classes

Refer to the *Fast Track* section in the Schedule of Classes for the complete list of *Fast Track* offerings.








#### TRACK 1 DATES (8/17/15 – 10/7/15)

Registration (Refer to your assigned registration date) .....	July 13 – August 14
Late Registration .....	August 17 – 24
Census submission due from faculty .....	August 20
Deadline to ADD Track 1 classes .....	August 24
Deadline to DROP Track 1 classes without a "W" grade .....	August 24
Deadline to DROP Track 1 classes with a "W" grade .....	September 11
Grades due from faculty .....	October 14

#### TRACK 2 DATES (10/19/15 – 12/10/15)

Registration .....	September 28 – October 16
Late Registration .....	October 19 – 22
Census submission due from faculty .....	October 22
Deadline to ADD Track 2 classes .....	October 22
Deadline to DROP Track 2 classes without a "W" grade .....	October 26
Deadline to DROP Track 2 classes with a "W" grade .....	November 13
Grades due from faculty .....	January 5

WEEK	2015							2016							WEEK	
	M	T	W	T	F	S	S	M	T	W	T	F	S	S		
August							1	2					1	2	3	January
	3	4	5	6	7	8	9	4	5	6	7	8	9	10		
September	10	11	12	13	14	15	16	11	12	13	14	15	16	17	1	
	17	18	19	20	21	22	23	18	19	20	21	22	23	24	2	
October	24	25	26	27	28	29	30	25	26	27	28	29	30	31	3	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	4	
November	8	9	10	11	12	13	14	8	9	10	11	12	13	14	5	
	15	16	17	18	19	20	21	15	16	17	18	19	20	21	6	
December	22	23	24	25	26	27	28	22	23	24	25	26	27	28	7	
	29	30	31					29							8	
January															9	
															10	
February															11	
															12	
March															13	
															14	
April															15	
															16	
May															17	
															18	

LEGEND	
	= Instruction Begins
	= Holiday
	= Final Examinations
	= Convocation
	= Spring Break
	= Institutional/Flex Days. No classes held.
	= Commencement

**NOTE:** Weekend classes meet following Friday holidays and before Monday holidays unless specifically designated as a holiday on this calendar.

\* **Deadline for refunds** varies for Fast Track classes. Check your Registration Receipt or Class Schedule on the MyChaffey portal for this information.

#### IMPORTANT SAFETY EVENTS

The Great California Shakeout Earthquake Drill ...	October 15, 2015
Active Shooter Drill .....	Week of April 4, 2016

# Chaffey College 2015–2016 Academic Calendar

## Spring Semester 2016

January 11 – May 18

87 service days

Schedule of Classes available on the website .....	June 1
Application Period (online with OpenCCC) .....	Begins September 1
Registration Notification .....	October 26
Registration Period .....	November 9 – January 8
<b>Payment Deadline</b> .....	(For specific details, refer to the payment table and drop process for non-payment in the <i>Schedule of Classes.</i> )
Institutional Flex Days .....	January 7 – 8
<b>INSTRUCTION BEGINS</b> .....	<b>January 11</b>
Late Registration .....	January 11 – 19
ADD CODES required throughout the late registration period	
Martin Luther King, Jr. Holiday .....	January 18
Deadline to ADD full-term classes .....	January 19
Refund deadline for full-term classes .....	January 25
Census submission for full-term classes due from faculty .....	January 27
Deadline to DROP full-term classes without a "W" grade .....	February 1
Lincoln Holiday .....	February 12
Washington Holiday .....	February 15
Deadline to apply for graduation and certificates for ceremony participants .....	February 26
Spring Break .....	March 14 – 20
Deadline to DROP full-term classes with a "W" grade .....	April 6
Deadline to apply for credit by exam, graduation and certificates for non-ceremony participants .....	April 15
Faculty Lecture. No classes held .....	April 20
Deadline to ADD open-entry/exit classes .....	April 22
<b>FINAL EXAMINATIONS</b> .....	<b>May 12 – 18</b>
<b>INSTRUCTION ENDS</b> .....	<b>May 18</b>
Commencement .....	May 19
Grades due from faculty .....	May 25
Grades available online .....	May 26
Memorial Day Holiday .....	May 30

### Registration for Fast Track Classes

Refer to the *Fast Track* section in the Schedule of Classes for the complete list of *Fast Track* offerings.

#### TRACK 1 DATES (1/11/16 – 3/7/16)








Registration (Refer to your assigned registration date) .....	November 9 – January 8
Late Registration .....	January 11 – 19
Census submission due from faculty .....	January 14
Deadline to ADD Track 1 classes .....	January 19
Deadline to DROP Track 1 classes without a "W" grade .....	January 19
Deadline to DROP Track 1 classes with a "W" grade .....	February 5
Grades due from faculty .....	March 21

#### TRACK 2 DATES (3/21/16 – 5/11/16)

Registration .....	February 29 – March 18
Late Registration .....	March 21 – 28
Census submission due from faculty .....	March 24
Deadline to ADD Track 2 classes .....	March 28
Deadline to DROP Track 2 classes without a "W" grade .....	March 28
Deadline to DROP Track 2 classes with a "W" grade .....	April 14
Grades due from faculty .....	May 25

		2015							2016								
		M	T	W	T	F	S	S	M	T	W	T	F	S	S		
WEEK																WEEK	
August							1	2						1	2	3	January
		3	4	5	6	7	8	9	4	5	6	7	8	9	10		
	1	10	11	12	13	14	15	16	11	12	13	14	15	16	17		
September	2	17	18	19	20	21	22	23	18	19	20	21	22	23	24	1	
		24	25	26	27	28	29	30	25	26	27	28	29	30	31	2	
	3		1	2	3	4	5	6	1	2	3	4	5	6	7	3	
	4	7	8	9	10	11	12	13	8	9	10	11	12	13	14	4	
	5	14	15	16	17	18	19	20	15	16	17	18	19	20	21	5	
	6	21	22	23	24	25	26	27	22	23	24	25	26	27	28	6	
	7	28	29	30					29							7	
October					1	2	3	4	1	2	3	4	5	6		8	
	8	5	6	7	8	9	10	11	7	8	9	10	11	12	13	9	
	9	12	13	14	15	16	17	18	14	15	16	17	18	19	20	March	
	10	19	20	21	22	23	24	25	21	22	23	24	25	26	27		
	11	26	27	28	29	30	31		28	29	30	31					
November								1					1	2	3	April	
	12	2	3	4	5	6	7	8	4	5	6	7	8	9	10		
	13	9	10	11	12	13	14	15	11	12	13	14	15	16	17		
	14	16	17	18	19	20	21	22	18	19	20	21	22	23	24		
	15	23	24	25	26	27	28	29	25	26	27	28	29	30			
December			1	2	3	4	5	6							1	May	
	16	7	8	9	10	11	12	13	2	3	4	5	6	7	8		
	17	14	15	16	17	18	19	20	9	10	11	12	13	14	15		
	18	21	22	23	24	25	26	27	16	17	18	19	20	21	22		
	19	28	29	30	31				23	24	25	26	27	28	29		

### LEGEND

	= Instruction Begins		= Spring Break
	= Holiday		= Institutional/Flex Days. No classes held.
	= Final Examinations		= Commencement
	= Convocation		

**NOTE:** Weekend classes meet following Friday holidays and before Monday holidays unless specifically designated as a holiday on this calendar.

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### IMPORTANT SAFETY EVENTS

The Great California Shakeout Earthquake Drill ...	October 15, 2015
Active Shooter Drill .....	Week of April 4, 2016

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WILSON AVENUE

TO MILLIKEN AVENUE

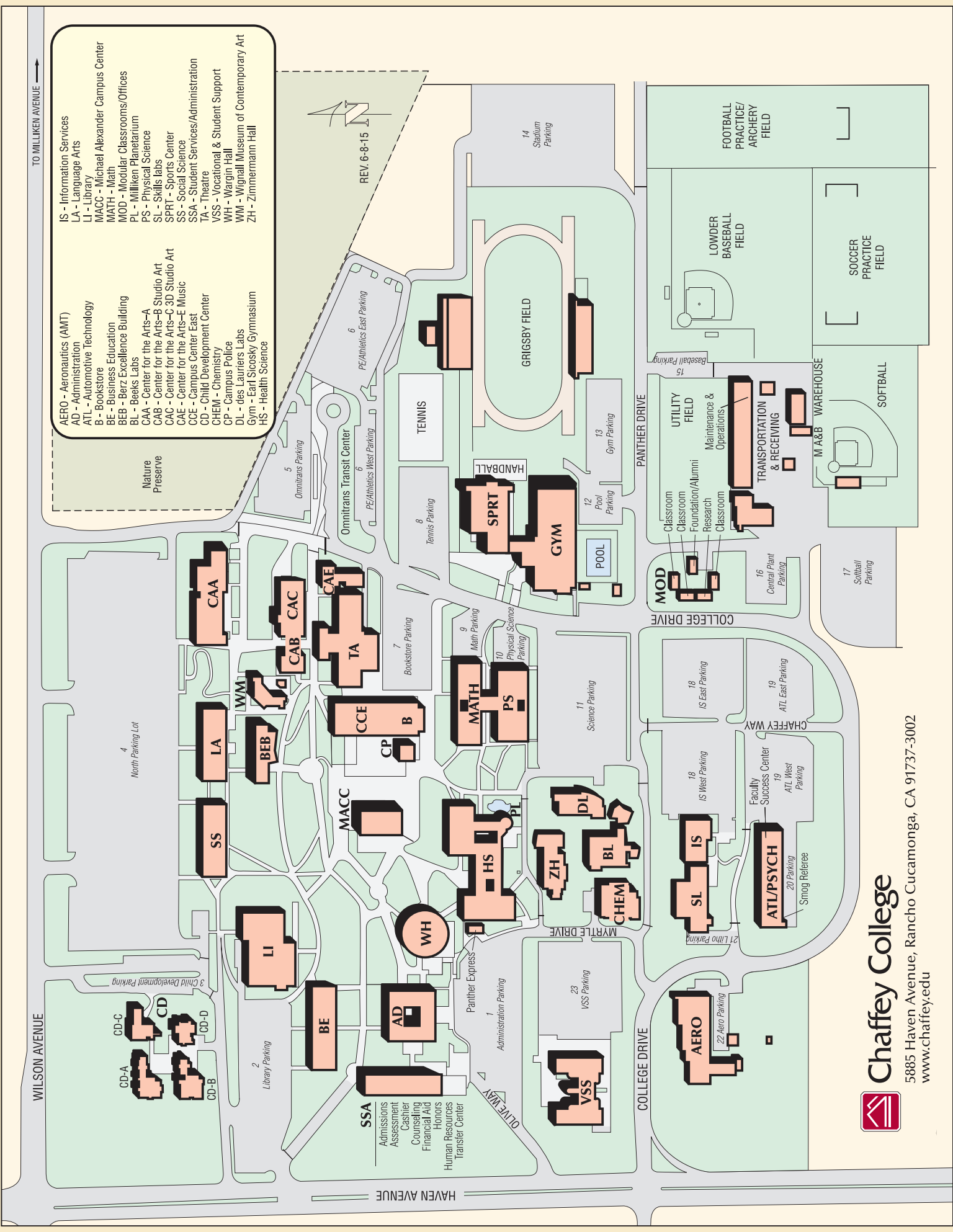
- IS - Information Services
- LA - Language Arts
- LI - Library
- MACC - Michael Alexander Campus Center
- MATH - Math
- MOD - Modular Classrooms/Offices
- PL - Milliken Planetarium
- PS - Physical Science
- SL - Skills labs
- SPRT - Sports Center
- SS - Social Science
- SSA - Student Services/Administration
- TA - Theatre
- VSS - Vocational & Student Support
- WH - Wargin Hall
- WIM - Wignall Museum of Contemporary Art
- ZH - Zimmermann Hall

- AERO - Aeronautics (AMT)
- AD - Administration
- ATL - Automotive Technology
- B - Bookstore
- BE - Business Education
- BEB - Berz Excellence Building
- BL - Beeks Labs
- CAB - Center for the Arts-A
- CAC - Center for the Arts-B Studio Art
- CAE - Center for the Arts-E Music
- CCE - Campus Center East
- CD - Child Development Center
- CHEM - Chemistry
- CP - Campus Police
- DL - des Lauriers Labs
- Gym - Earl Sicosky Gymnasium
- HS - Health Science

Nature Preserve



REV. 6-8-15



Chaffey College

5885 Haven Avenue, Rancho Cucamonga, CA 91737-3002  
www.chaffey.edu





# Chaffey College

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5885 Haven Avenue  
Rancho Cucamonga, California 91737-3002