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# FRESNO CITY COLLEGE 2021-2022 CATALOG

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*A Public California Community College*



Fresno City College is California's first community college and was founded in 1910 with 20 students and three instructors. The college now has over 20,000 students each semester and over 700 faculty members.

## COLLEGE STATEMENT

This publication is intended to serve students and prospective students as a guide to program planning, institutional services and regulations for attendance at this institution. This catalog becomes effective with the Fall 2021 semester and ends with the Summer 2022 session, unless otherwise amended. The college reserves the right to adjust conditions of enrollment, class offerings, and services rendered as dictated by the limits of institutional resources and enrollment conditions.

Students are held individually responsible for the information contained in the catalog. Failure to read and comply with college regulations will not exempt students from whatever penalties they may incur.

Reference copies of the catalog are available in the Library, Counseling Center, Admissions and Records Office, online, and in the offices of the deans of instruction and educational advisors. Students are encouraged to purchase and use their own copy of the catalog. Personal copies are for sale in the Fresno City College Bookstore.



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Fresno City College provides students a rich and culturally diverse environment through student activities, club events and special heritage days and recognized months.

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# INTRODUCTION

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*Fresno City College is a college of the State Center Community College District, which operates within the broader mission of California's 116 community colleges. Fresno City College strives to be a premier learning community whose students, graduates and staff will be among the best prepared citizens to meet the challenges of an increasingly complex environment.*

## Fresno City College Mission

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As California's first community college, Fresno City College provides quality, innovative educational programs and support services directed toward the enhancement of student success, lifelong learning and the economic, social, and cultural development of our students and region.

## Fresno City College Vision Statement

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As educational leaders in the community, Fresno City College faculty, staff and students will engage in a partnership to transform lives through education.

## Fresno City College Core Values

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**Growth:** We are committed to sharing and exploring new ideas through collaboration, respect for diversity, promoting equity, and professional development.

**Leadership:** We are leaders in our community, dedicated to behaving ethically, committed to open communication, and good stewards of our resources.

**Success:** We champion excellence, quality, celebrating individual differences, and providing a positive and supportive environment for all.

## Fresno City College Ethics Statement

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The principles and values of the Fresno City College Code of Ethics and Excellence guide the faculty, students, and staff in the achievement of a profound appreciation of and respect for the dignity and worth of each member of our community of learners in responding to the trust conferred on the college by the public. We are guided by the standards and principles established by our respective professional associations and organizations in our effort to create an ethical college community.

**Fairness:** In our relationships with each other, we will be fair and just in our decisions and actions by carefully weighing the circumstances in an equitable manner.

**Civility:** We adhere to standard conventions of civility and regard of others. We achieve an open working and learning environment when each community member feels secure enough to participate in the free exchange of ideas. We ensure an honest and supportive climate which serves the interests of the institution and protects the well-being of all individuals.

**Integrity:** In order to support excellence in learning, we will act in the college's best interests. As a community dedicated to providing education, we demonstrate professional integrity and exemplary behavior in all that we do.

**Respect:** We demonstrate a high regard for the rights, diverse opinions, and life styles of all community members. It is our responsibility to establish a climate of mutual respect to protect the rights and freedoms of others.

**Trust:** The development of trust relies on our ability to treat others equitably in a non-exploitive manner.

*Adapted from Humber College Ethics Statement.*

## Fresno City College Institutional Student Learning Outcomes

### *Communication*

Students will demonstrate effective communication and comprehension skills.

- Comprehend, analyze and respond appropriately to oral, written and visual information.
- Effectively communicate information through speaking, writing and other appropriate modes of expression.

### *Critical Thinking and Information*

#### *Competency*

Students will demonstrate critical thinking skills in problem solving across disciplines and in daily life.

- Identify vital questions, problems, or issues and evaluate the reasonableness of a solution.
- Analyze, assess, and evaluate the validity of an argument.
- Analyze multiple representations of quantitative information, including graphic, formulaic, numeric, and verbal.
- Select and evaluate the accuracy, credibility, and relevance of information sources.

### *Community and Global Awareness and Responsibility*

Students will demonstrate knowledge of social, cultural, environmental and aesthetic perspectives.

- Examine individual and group responsibilities in society.
- Participate in active citizenship.

### *Personal, Academic, and Career Development*

Students will assess their own skills and abilities to develop personal, educational, and career goals, work independently and in group settings, and identify lifestyle choices that promote self-reliance, financial literacy, and physical, mental and social health.

- Assume personal responsibility for identifying academic and psychological-social needs, determining resources, and accessing appropriate services.
- Evaluate progress towards achieving personal goals, academic goals, career goals, and career resilience.

## History of Fresno City College

Fresno City College was established in 1910, becoming California's first community college and ultimately changing education in California.

The college's history began in 1907 when C. L. McLane, then superintendent of schools for the city of Fresno, recognized the need for college instruction for San Joaquin Valley students. Largely through McLane's efforts, Fresno Junior College was established. The first class consisted of 20 students and three instructors.

The campus was originally located at the former Fresno High School campus on "O" Street in downtown Fresno. In 1921, Fresno Junior College combined with the then Fresno normal School, later Fresno State College and currently California State University, Fresno. The junior college operated on the same campus as the four-year school. Fresno Junior College continued to grant associate degrees and offer a two-year curriculum, but its campus and staff were identical with those of the normal school. In 1948, new laws permitted local school districts to operate junior colleges, and Fresno City College returned to the "O" Street campus, which it shared with Fresno Technical High School. By 1950, the technical high school program had been phased out and the district began looking for another campus. The junior college district completed negotiations for the purchase of the University Avenue site from Fresno State College, and by 1956 Fresno Junior College had moved to its current location on University Avenue. The name was changed to Fresno City College on May 11, 1958.

Fresno City College has built upon its rich history and gone on to pioneer many new developments in community college education. Thousands of local people have worked through the years to make Fresno City College a viable and strong educational institution.



## The District

The State Center Community College District office is located at 1171 Fulton Street, Fresno, CA 93721. The district is comprised of Fresno City College, Reedley College, Career and Technology Center, Clovis Community College, Madera Community College, Madera Community College at Oakhurst, and The Training Institute. Each campus offers certain programs/courses which are unique and are not offered at the other campuses.

## Student Right-to-Know and Campus Security Act

In compliance with the Student-Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the State Center Community College District and Fresno City College to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2009, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students was tracked over a three-year period. Their completion and transfer rates are listed below. These rates do not represent the success rates of the entire student population at Fresno City College, nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, a Completer is a student who attained a certificate or degree or became transfer-prepared' during a three-year period, from Fall 2014 to Spring 2017. Students who have completed 60 transferable units with a GPA of 2.0 or better are considered 'transfer-prepared'. Students who transferred to another post-secondary institution, prior to attaining a degree, certificate, or becoming 'transfer-prepared' during a five semester period, from Spring 2015 to Spring 2017, are transfer students.

Completion Rate: 17.5%

Transfer Rate: 5.67%

Annual reports of criminal activity on campus and procedures for prevention of campus crime, as required by the Crime Awareness and Campus Security Act of 1991, are available, on request, from the district Police Department.





# ACADEMIC CALENDAR

## Fall Semester 2021

August 5 .....	Instruction begins
September 6 .....	Labor Day Holiday (Campus Closed)
October 8 .....	Last day to drop from 18-week classes
November 11 .....	Veterans Day Holiday (Campus Closed)
November 25-26 .....	Thanksgiving Day Holidays (Campus Closed)
December 6-10 .....	Final examinations
December 10 .....	End of Fall Semester 2021
December 13-31 .....	Winter recess

## Spring Semester 2022

January 10 .....	Instruction begins
January 17 .....	Martin Luther King, Jr. Day Holiday (Campus Closed)
February 18 .....	Lincoln's Day Holiday (Campus Closed)
February 21 .....	Washington's Day Holiday (Campus Closed)
March 11 .....	Last day to drop from 18-week classes
April 11-15 .....	Spring recess (Classes reconvene April 18)
May 16-20 .....	Final examinations
May 20 .....	End of Spring Semester 2022
May 20 .....	Graduation exercises

## Summer Semester 2022

Fresno City College will conduct four sessions:  
(subject to change)

- 4-week summer session
- 6-week summer session
- 8-week summer session
- 10-week summer session

May 23 .....	Instruction begins for 4- and 10-week classes
May 30 .....	Memorial Day Holiday (Campus Closed)
June 6 .....	Instruction begins for 8-week classes
June 17 .....	Final examinations and end of 4-week classes
June 20 .....	Instruction begins for 6-week classes
July 4 .....	Independence Day Holiday Observed (Campus Closed)
July 29 .....	Final examinations; end of 6-week, 8-week, & 10-week classes
	<i>Note: Evening classes observe the same holiday and examination schedule as day classes.</i>

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# ADMISSION AND REGISTRATION

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## Admission of Students

Fresno City College is one of multiple colleges and centers within the State Center Community College District (SCCCD). Students need only submit one application for admission to any of the SCCC's colleges/centers. Apply online at [www.fresnocitycollege.edu](http://www.fresnocitycollege.edu) for greatest convenience.

### Who Needs to Apply?

If you have never attended (*first-time college or transfer student*) a college or center within the State Center Community College District (SCCCD); if you previously attended (returning student) a college or center within SCCC and have been away for two or more consecutive primary semesters (fall to spring or spring to fall); if you are a high school graduate and previously attended as a high school student (enrichment or dual enrollment); you must complete the SCCC online admissions application.

High school students who wish to enroll in college courses before graduating high school, must complete a SCCC online Enrichment/Dual Enrollment admissions application as well as the required Enrichment or Dual Enrollment program packet for the campus or center the student would like to attend.

### General Admission

Any person who is at least 18 years of age, or with a high school diploma or equivalent (such as California High School Proficiency Examination (CHSPE) or the General Education Development test (GED) with a score of at least 45 overall and with no subtest lower than 35) may be admitted. An official transcript or test result must be submitted to the Admissions and Records Office, 1101 East University Avenue, Fresno, CA 93741-0001.

### High School Enrichment/Dual Enrollment Admission

High school students who wish to enroll in college courses before graduating high school, must complete a SCCC online Enrichment/Dual Enrollment admissions application as well as the required Enrichment or Dual

Enrollment program packet for the campus or center the student would like to attend. Information regarding the Dual Enrollment/Enrichment program can be obtained from your high school counselor or contact the College Relations office at (559) 442-8225 for details.

### International Admission

A person must be 18 years of age or older and a high school/secondary school graduate before the start of the admission semester. Upon completion of the SCCC admission application, official documents (i.e. evidence of financial responsibility, English proficiency, and applicable health/TB records), and proof of high school graduation with detailed secondary and post-secondary transcripts of record are to be submitted with English translation to the International Student Program Office for admission consideration no later than:

- June 1 for Fall admission
- November 1 for Spring admission

International students admitted must comply with the regulations of the Student and Exchange Visitor Program (SEVP) and maintain 12 qualifying units or more each semester at this college. Studies are in person (face to face), with minimal online classes allowed under SEVP. Students may study for an Associate Degree, Degree for Transfer, or Certificate Program. Students must purchase the mandatory health insurance plan endorsed by the college district. Current admission application forms and procedures, and relevant health and TB requirements are available on the website.

An applicant is not officially admitted to the college until written notification (Form 1-20, Certificate of Eligibility for Nonimmigrant Student Status) is provided by the International Student Program. By the student's program start date, they must provide a copy of their F1 Visa. A copy of the visa and current passport must be kept in the student's International Student Program file at all times.

Concurrent enrollment is also allowed on a part-time basis by F1 students from another international program. Specific rules apply and may be obtained from the Program office.

## Returning Student Admission

A person who previously attended any college or center within SCCC and has been absent for two or more primary consecutive (fall and spring) semesters must complete an admission application for the semester they are planning to return. An official transcript of work taken at other institutions (including summer session and extension or online courses) since the date of last enrollment at Fresno City College must be sent to the Admissions and Records Office, 1101 East University Avenue, Fresno, CA 93741-0001.

## Transfer Admission

For a person who has previously attended another college, not within SCCC, a complete transcript of work attempted from each college of attendance, whether or not credit was earned, is to be sent directly to the College Admissions and Records office. It is important to note that transcripts received with "work in progress" are not considered complete.

## Summary of Admission Requirements

Any person who intends to obtain a degree or certificate of achievement at Fresno City College or plans to transfer to a four-year college or university shall be required to:

- Complete a SCCC Admission Application prior to the deadline as specified in the catalog, if applicable.
- If no other college work has been completed, provide official High School transcripts, GED scores or copy of the CHSPE Certificate to the Admissions & Records office.
- Request each college of attendance to send a complete official transcript of work attempted whether or not credit was earned.
- Transcripts should be sent directly to:  
Fresno City College  
Admissions and Records  
1101 E University Avenue  
Fresno, CA 93741-0001

## Residency

By law, every student must file a statement declaring their residence status. The form for such a statement is included in the admission process.

A maintenance allowance is available for students attending Fresno City College whose permanent residence is in a California nondistrict territory (district without a community college) and who live more than 60 miles from the "nearest community college attendance center." For further information, contact the Admissions & Records Office, room 111, Student Services Building, lower level. (Title 5, Section 54200).

It is recommended that all students whose legal residence is outside of the State Center Community College District have a health and accident insurance policy while attending Fresno City College.

## In-State

Students who have established residency in California for at least one year and one day prior to the beginning of the term in which they enroll.

## Out-of-State/International

Students who have not established residency in California for at least one year and one day prior to the beginning of the term in which they enroll.

## Exemption from Nonresident Tuition (AB-540)

Any student, other than one with United States Citizenship and Immigration Services (USCIS) nonimmigrant visa status (see exception below for students who have been granted T or U visa status), who meets all of the following requirements, shall be exempt from paying nonresident tuition at the California Community Colleges, the University of California, and the California State University (all public colleges and universities in California).

A student is exempt from paying nonresident tuition if the student meets all of the following four requirements:

1. The student must have:
  - attended a combination of California high school, adult school, and California Community College for the equivalent of three or more years; or
  - attained credits earned in California from a California high school equivalent to three or more years of full-time high school course work and attended a combination of elementary, middle and/or high schools in California for a total of three or more years, **and**
2. The student must have:
  - graduated from a California high school or attained the equivalent prior to the start of the term (for example, passing the GED or California High School Proficiency exam), or
  - completed an associate degree from a California Community College, or
  - completed the minimum requirements at a California Community College for transfer to the California State University or the University of California, **and**

Yog koj xav paub txog kev pab caum rau kev kawm natwv (Matriculation), thov mus cuag tau Counseling Department.

Si necesita información en español para su matriculación a la universidad comunal, favor de ponerse en contacto con el Departamento de Consejeros.

3. The student must register as an entering student at, or current enrollment at, an accredited institution of higher education in California, **and**
4. The student must file an affidavit with the college or university stating that if the student is a non-citizen without current or valid immigration status, the student has filed an application to legalize immigration status, or will file an application as soon as the student is eligible to do so.
  - Students who are nonimmigrants who are victims of trafficking, domestic violence, and other serious crimes who have been granted T or U visa status, under Title 8 of the United States Code, sections 1101(a)(15)(T) or (U) are eligible for this exemption.
  - Students who are nonimmigrants, other than those with T or U visa status as noted above, [for example, those who hold F (student) visas, B (visitor) visas, etc.] are not eligible for this exemption.
  - The student must file an exemption request including a signed affidavit with the college that indicates the student has met all applicable conditions described above. Student information obtained in this process is strictly confidential unless disclosure is required under law.
  - Students eligible for this exemption who are transferring to another California public college or university must submit a new request (and documentation if required) to each college under consideration.
  - Nonresident students meeting the criteria will be exempted from the payment of nonresident tuition, but they will not be classified as California residents. They continue to be “nonresidents.”

## Reclassification

A student previously classified as a nonresident may request reclassification by completing a Residency Questionnaire available at the Admissions and Records Office. The request for reclassification **must be submitted prior to the semester for which reclassification is to be effective**. Extenuating circumstances may be considered in cases where a student failed to petition for reclassification prior to the residency determination date. In no case, however, may a student receive a nonresident tuition refund after two primary terms.

Written documentation, evidence of both physical presence and intent, is required of the student in support of the residence reclassification.

A student shall be considered financially independent for purposes of residence reclassification if the applicant meets all of the following requirements:

- Has not and will not be claimed as an exemption for state and federal tax purposes by his or her parent in the calendar year prior to the year the reclassification application is made;
- Has not lived and will not live for more than six weeks in the home of his or her parent during the calendar year the reclassification application is made.

A student who has established financial independence may be reclassified as a resident if the student has met the requirements of Title 5 Sections 54020, 54022 and 54024.

Determination of financial independence is not required for students who were classified as nonresidents by the University of California, the California State University, or another community college district. (Education Code Section 68044)

The Admissions and Records Office will make a determination based on the evidence and notify the student no later than 14 days after receipt of the request for reclassification. Students have the right to appeal according to the procedures below.

## Appeal Procedure

The appeal is to be submitted to the Fresno City College Admissions and Records Office which must forward the appeal to the Vice President of Student Services within five working days of receipt. Copies of the original application for admission, the residency questionnaire, and evidence or documentation provided by the student, with a cover statement indicating upon what basis the residence classification decision was made, must be forwarded with the appeal.

The Vice President of Student Services shall review all the records and have the right to request additional information from either the student or the Admissions and Records Office. Within 30 calendar days of receipt, the Vice President of Student Services shall send a written determination to the student. The determination shall state specific facts on which the appeal decision was made.



Students who wish to be a candidate for graduation in two years must carry an average of 15 units per semester.

## Matriculation

Matriculation is the process that brings Fresno City College and each student together for the purpose of helping students succeed in achieving their educational goals. To accomplish this, the college and the student form a partnership in which each have responsibility for student success.

As a partner in the success of students, and in alignment with the campus matriculation services, the college will provide the following:

- An admission process
- Orientation to college programs, services and procedures
- Counseling to develop a Student Educational Plan
- Counseling related to student progress with referral to support services as necessary

As a partner in their success, students agree to:

- Complete the placement/assessment process
- Declare a specific educational objective
- Participate in an orientation session
- Participate in counseling-related activities to develop and refine a Student Educational Plan

## Steps to Success

1. APPLICATION/ADMISSION  
Apply online at [www.scccd.edu/apply](http://www.scccd.edu/apply)
2. FINANCIAL AID (optional)  
Apply for financial aid by completing the Free Application for Federal Student Aid (FAFSA) at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). To apply for scholarships, view important deadlines, and find more information, go to [www.fresnocitycollege.edu/financialaid](http://www.fresnocitycollege.edu/financialaid).
3. ORIENTATION  
Complete the online orientation at [www.scccd.edu/orientation](http://www.scccd.edu/orientation)
4. COUNSELING/ASSESSMENT  
Meet with a FCC counselor and complete your first semester Student Education Plan (SEP).
5. REGISTRATION  
Register for classes at [www.scccd.edu/register](http://www.scccd.edu/register)

## Matriculation Exemptions

Fresno City College encourages all students to fully participate in the college's matriculation services. However, certain students may be exempt from the assessment, orientation and/or counseling components.

## Orientation

New students are required to participate in orientation. Students may be exempt from orientation for any of the following reasons; however, this exemption will not be used to meet the matriculation requirements for enrollment priority:

- Attended another college/university
- Completed an associate degree or higher
- Pursuing certain educational goals (contact the Counseling Department for details)

## Advising

It is recommended that students meet with an academic advisor each semester. Students may obtain counseling assistance by contacting the College Relations Office at (559) 442-8225 (new students) or the Counseling Center at (559) 442-8226 (current or returning students), or online counseling is also available via the Fresno City College website at [www.fresnocitycollege.edu](http://www.fresnocitycollege.edu).

## Assessment & AB705

In alignment with AB705/AB1805, Fresno City College ensure our students' right to access transfer level coursework in English and Math. FCC utilizes a process that includes multiple measure criteria for initial course placement.

It is highly recommended that students planning to take an English class, a math class or a class that has an English or math prerequisite, meet with a counselor prior to registration to ensure they enroll in classes of the appropriate level.

## Multiple Measures Placement Criteria

Criteria that may be used to place students into courses may include:

- High school coursework
- High school grades
- High school grade point average
- AP/IB Exam Scores
- College coursework completed at another college/university
- Guided Self Placement

Based on a review of these multiple measures, students may be eligible to enroll in transfer level English or math courses, with or without co-requisite support.

## Challenge Process

Any student whose multiple measure placement places them into a corequisite support course for English and/or math may challenge that placement by seeing a counselor and completing the appropriate challenge form.

## Registration

Upon completion of the applicable admission requirements, specific registration instructions are emailed to the student's SCCCD (my.scccd.edu) email account. Registration instructions are sent beginning in March for the summer/fall semester and in October for the spring semester.

Effective for Summer/Fall 2014 registration, SCCCD established Registration and Enrollment procedures in accordance with Title 5, Section 58108. Assignment of registration dates is determined based upon the following Tier requirements.

TIER	PRIORITY GROUP	REQUIREMENTS
1	Active Military/Veterans, CalWORKs, Disabled Student Programs and Services (DSPS), Foster Youth, Extended Opportunity Programs and Services (EOPS), verified homeless, Tribal TANF, and Central Valley Promise (CVP)*.	<ul style="list-style-type: none"> <li>Fully Matriculate - CVP: fully matriculated by published deadline</li> <li>Good Academic Standing (not req. for Foster Youth or homeless)</li> <li>Do not Exceed 90 SCCCD degree applicable units</li> </ul>
2	District approved groups based upon AR 5055: ASG, Athletics, DSPS Note takers, Future Nurses, Honors, Middle College High Schools, ROTC, TRIO, Student Ambassadors	<ul style="list-style-type: none"> <li>Good Academic Standing</li> <li>Continuing students must have an SEP by published deadline</li> <li>Do not exceed 90 SCCCD degree applicable units</li> <li>First-time college students MUST be fully matriculated</li> </ul>
3	Continuing students who have completed a <b>Student Education Plan (SEP)*</b> . <i>Based upon Quality Points</i>	<ul style="list-style-type: none"> <li>Good Academic Standing</li> <li>Continuing students must have an SEP by published deadline</li> <li>Do not exceed 90 SCCCD degree applicable units</li> <li>First-time college students MUST be fully matriculated</li> </ul>

TIER	PRIORITY GROUP	REQUIREMENTS
4a	First-time college students – from SCCCD feeder High Schools	<ul style="list-style-type: none"> <li>Fully Matriculated by published deadline</li> </ul>
4c	First-time college students – Home Schooled within the SCCCD service area	<ul style="list-style-type: none"> <li>Fully Matriculated by published deadline</li> </ul>
4b	First-time college students- from non-feeder high schools	<ul style="list-style-type: none"> <li>Fully Matriculated by published deadline</li> </ul>
5	Continuing students <b>without</b> a Student Education Plan (SEP). <i>Based upon Quality Points</i>	<ul style="list-style-type: none"> <li>Good Academic Standing</li> <li>Do not exceed 90 SCCCD degree applicable units</li> </ul>
6a	First-time college students who are not fully matriculated, College Advancement Program	N/A
6b	Returning students with a Student Education Plan (SEP)	<ul style="list-style-type: none"> <li>SEP on file by published deadline</li> <li>Good Academic Standing</li> <li>Do not exceed 90 SCCCD degree applicable units</li> </ul>
6c	Returning students <b>without</b> a Student Education Plan (SEP) and transfer students	<ul style="list-style-type: none"> <li>Good Academic Standing</li> <li>Do not exceed 90 SCCCD degree applicable units</li> </ul>
7	All not meeting criteria above may register during any open enrollment.	<ul style="list-style-type: none"> <li>Not good</li> <li>Over 90 SCCCD degree applicable units</li> <li>High School Enrichment</li> </ul>

Definitions:

**First-time students:** Students who are attending college for the first time, excluding high school enrichment students.

**Continuing students:** Students who are continuously enrolled from one primary (fall or spring) term to the next.

**Returning students:** Students who previously attended that stopped out for at least one primary (fall or spring) term.

**Good Academic Standing:** A student who is not on academic or progress probation, or whose most recent term was successful, is in Good standing for enrollment priority only.



All courses taught at Fresno City College may be offered for either Pass/No Pass or traditional grades, at the discretion of the administration.

**Academic Probation:** after attempting 12 units, student's cumulative GPA falls below 2.0.

**Progress Probation:** after attempting 12 units, student does not complete more than 50% of units attempted.

**SEP:** Student Educational Plan. The plan outlines suggested courses for students based on degree, certificate, or transfer plans.

**\*SEPC:** Comprehensive Student Education Plan. Students who complete an SEPC may have their registration date advanced by 1 day within the student's current tier.

**Fully Matriculated:** Students who complete the college orientation, assessment/placement test, and student educational plan.

**90 Degree Applicable Units:** Based on units earned at SCCCD. Excludes units earned from basic skills and special courses.

### Class Schedule Change

Errors in registration should be rectified prior to the start of each semester or session. Students are encouraged to discuss with their counselors program changes that affect the educational plans.

### Concurrent College Enrollment

Fresno City College students planning to attend another college (other than Clovis Community College, Reedley College, Madera Community College, or Madera Community College at Oakhurst) at the same time are required to obtain a concurrent enrollment authorization form from the college where the major number of units will be taken. Forms are available at the Admissions and Records Office, Student Services Building, lower level, for students who will be taking the majority of units at Fresno City College. Students may attend multiple sites concurrently within SCCCD without following the procedure described above.

### Dropping (Withdrawal from) a class or Withdrawing from College

A student assumes the responsibility of meeting class standards of attendance and progress. This obligation remains until such time as the course is officially dropped. It is the student's responsibility to drop a class in which he/she no longer wishes to be enrolled. A student may drop (withdraw) from a full-term class through the last day of the ninth week of instruction (or 50 percent of a short-term class, whichever is less).

There will be no entry on a student's record for dropping during the first three weeks of a full-term class or prior to the 20 percent point of a short-term class.

An entry of "W" will be recorded on the student's record beginning at the 20 percent point of a class through the 50 percent point of a class.

A student may drop (withdraw) from all of their classes through the last day of the ninth week for full-term classes or the 50 percent point of short-term classes.

A student may drop using WebAdvisor or in person at any college or center Admissions and Records office, or can request to be dropped (withdrawn) by mailing or faxing a signed letter to the college. The letter must be received by the Admissions and Records office prior to the final drop date of the semester.

Excessive "Ws" will be used as factor in progress probation and dismissal procedures.

### Holds on Records and Registration

Students whose records are held for monetary reasons shall not be allowed to register for classes.

A monetary hold is placed on a student's record when the student fails to pay debts (e.g., failure to pay fees, insufficient fund check, financial aid repayment, loans) or return property owned by any college or center (e.g., library books, gym equipment, calculators) in the district. Additionally, holds may be placed for academic or disciplinary reason which will result in the student's inability to register for subsequent classes.

When students have cleared their financial obligations, the "monetary hold" will be removed.

### Intra-District Transfer

Students who plan on attending or transferring to a college or center within SCCCD for the ensuing semester will receive the same registration service and priority as currently enrolled students. It is advised that any cross enrolled or transfer student see a counselor.

### Registration Substitutes (Proxy Registration)

The Family Education Rights and Privacy Act (FERPA) makes it illegal for the college to release a student's confidential educational records to anyone without express written permission of the student. If the student is unable to register at their appointed date and time, a substitute may be appointed provided the proper procedure is observed; contact the Admissions and Records office for the specific procedure to follow.



## Wait List Rules and Information

When unable to find an open section of a course, students may have the option of being placed on a "WAIT LIST" for a specific section of the course. Please note that the following rules apply:

1. Students may add their name to any available "WAIT LIST" up to the last day of registration prior to the beginning of the class. Not all classes have wait lists.
2. Students will be added to a "WAIT LIST" on a first-come, first-serve basis.
3. Students cannot be placed on a "WAIT LIST" prior to their registration appointment date.
4. Students on a "WAIT LIST" will have first priority for any seats in a "full" class that may subsequently become available during the first 20% of the course PROVIDED that they attend each and every class meeting (for 18-week semester courses, this is the first 3 weeks of class).
5. A "WAIT LIST" will be available only for current class sections that are "full" (that is, the class has reached its "maximum class size"). No "WAIT LISTS" will be available for "canceled" class sections or class sections that are not yet "full". Not all classes have wait lists.
6. Students cannot be placed on a "WAIT LIST" for a section of a course when already enrolled in another section of that same course.
7. Students should not be on more than one "WAIT LIST" for the same course.
8. The Admissions and Records Office will regularly monitor all classes with existing "WAIT LISTS" up to the start of the semester. When an open seat becomes available, the top eligible student on the wait list will receive "Permission" to register and be sent a notification to their student (my.scccd.edu) email. The student must act upon this notification before the expiration date of the permission to register. Failure to act before the expiration date will result in the student being removed from the waitlist.
9. On the first day of class, instructors will determine the number of openings available in the class, and then offer spaces to students who are on the "WAIT LIST" (providing they are present in the class) in the order in which their names appear on the list. Student is responsible for officially adding the class within published registration dates.
10. After the "WAIT LIST" for the class is exhausted, additional openings, if any, will be filled by the instructor in accordance with existing college and district policy.
11. Any and all other registration rules (conflicts, overload, administrative or student holds) may prevent the student from enrolling in a class. See Schedule of Classes for details or visit [www.scccd.edu/waitlist](http://www.scccd.edu/waitlist).

## Student Fees

NOTE: Enrollment fees for California residents are subject to change without notice per California State Legislature and Governor. If enrollment fees are raised after you enroll, you will be notified of the additional amount that you need to pay.

### Enrollment Fee\*

The state of California mandates an enrollment fee of \$46 per unit (with no cap) be charged to all students (E.C. 76300; 5, CCR 58500-58509). Classes may be dropped if fees are not paid by due dates. Please see the Class Schedule for fee deadlines and payment options.

*\*Fees are subject to change without notice.*

### Nonresident and International Tuition

Nonresident and international students are charged a tuition fee as follows (education Codes 76140; 76140.5):

#### Regular and Summer Sessions

Each full unit taken:

- International Student Tuition \$300\*\*
- Nonresident Student Tuition \$300\*\*
- Plus enrollment Fee per unit \$46\*\*

*\*\* Note: Nonresident fees are computed each year in accordance with a state mandated formula and are therefore subject to change. Contact the College Business Office for current information. \*Fees are subject to change without notice.*

A "nonresident" student is a student who has not resided in the state for more than one year immediately preceding the first day of the regular semester/summer session (Title 5, Section 54002), and has not demonstrated evidence of intent to be a California resident.

All international students must also have proof of domestic health insurance coverage in the amount prescribed by Board policy (which includes repatriation). Contact the International Student Program Office, Student Services Building, room 108.

Community college nonresident fees are due and payable to the College Business Office. Nonresident fees are payable via money order, certified check, cash or credit card.

Authorized apprenticeship students are exempt from Nonresident tuition fees for apprenticeship courses only.



*\* Fees are subject to change without notice.*

### Instructional Materials Fees\*

In accordance with Education Codes (E.C. 73365, 81457, 81458, 5CC 59400-59408), Fresno City College may require students to provide materials that are course-related, including, but not limited to, textbooks, tools, equipment and clothing. Such materials will be required if:

1. The instructional or other materials are used in the production of a course-related project or "end product" that has continuing value to the student outside of the classroom setting; or
2. The instructional and other materials required for the class have a continuing value to the student outside of the classroom setting.

### Health Fee\*

The health fee provides students with a variety of health care services. In accordance with Board policy, students are required to pay a health fee, regardless of the units taken.

For on-campus students, a \$21 health fee is required for each semester (fall and spring terms) and a \$18 health fee for the summer session. Off-campus students are required to pay a \$13 health fee for each term (fall, spring and summer). For students enrolled in both on-campus and off-campus sites the health fee is charged at the on-campus rate. Effective Fall 2006, on-campus sites will include Fresno City College, Reedley College, Clovis Community College, and Madera Community College. (E.C. 76355)

This fee is not waived by the California College Promise Fee Waiver. The use of on-campus labs or the on-campus tutorial center will result in an on-campus health fee. In accordance with California Education Code Section 76355, an exemption/waiver from the health fee is available to the following students:

- Students who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization.
- Students who are attending a community college under an approved apprenticeship training program.

The Health Fee Waiver form is available at the Fresno City College Business Office and online. The form must be turned in prior to the start of each semester.

### Parking Fee\*

Student vehicles must display a State Center Community College District parking permit to park in campus parking lots. Parking permits may be purchased at the FCC Bookstore or the College Business Office. The fee for parking on approved parking facilities is \$30 per semester; summer semester is \$20. One-day permits may be purchased at walk- and drive-up dispensers and metered parking is also

available. Copies of campus parking regulations are available at the campus Police Department or on their website at [sc-ccdpolice.com](http://sc-ccdpolice.com). Students requiring handicap parking should contact the Disabled Students Programs and Services Office.

### Transcript Fee\*

Requests for transcripts of courses taken within the State Center Community College District must, by provision of State and Federal law, be accompanied by student authorization. Students are entitled to obtain two copies of their transcript free of charge; each additional copy is \$5. Payment must be received before the request will be processed.

Normally, transcripts are available within five working days except during periods which involve holidays or at the end of each semester. When requesting transcripts by mail, address the request to the Admissions and Records Office. Transcripts from other institutions become a part of the student's permanent file and are not duplicated or forwarded.

### Associated Student Government Fee\*

Students are encouraged to purchase an Associated Student Body (ASB) membership. The membership is \$5 per semester. The ASB card entitles the student to participate in or attend all activities sponsored by the ASB. The card can also be used for reduced admission to all college-sanctioned athletic home games (except playoffs), theatrical productions and music programs. Students who are ASB members and carry 9 units or more are eligible for Associated Student funded emergency book loans and scholarships as available. A FAX/Q bus pass is included with the purchase of the ASB card. The college reserves the right to revoke this option for any person who is found misusing the pass.

### Associated Student Government Representation Fee\*

A student representative fee of \$2.00 is charged each semester, excluding summer sessions, to all students taking classes at Reedley College, Fresno City College, Clovis Community College, and Madera Community College, including the community campus locations. The fee is charged at each location a student attends, so students attending all four locations would be charged a total of \$8.00. The California College Promise Grant will not waive this fee. This fee is used for student advocacy at the local, state, and national levels. The fee is mandatory; however, students may opt out of the fee when registering for classes.

### Credit by Examination Fee\*

Application for Credit by Examination (CBE) is available in the Admissions Office located in the Student Services Building. If the application for the credit by exam is approved, the student must pay the credit by exam fees to the Business Office, no later than the end of the ninth week of the semester. Fees are the State per unit fee required by State Law (E.C.76300;5, CCR 58753), which is currently \$46 per unit (i.e., credit by exam for a 4.0 unit class would be \$46 per unit enrollment fee\* for a total of \$184. If California residency has not been established, non-resident tuition fees will also be added). Students awarded the California Promise Fee Waiver are entitled to have the fees waived and paid by the waiver. Loss of the California Promise Fee Waiver after fees are waived would result in the student becoming responsible for the CBE fees. The receipt for payment must be presented to the instructor before the exam will be administered.

*NUMBER OF ACTUAL CLASS MEETINGS:	10% POINT (ROUNDED DOWN)	100% REFUND IF WITHDRAWAL IS ON OR BEFORE:
8	0.8 = 0	1st day of class
16	1.6 = 1	1st day of class
24	2.4 = 2	2nd day of class
38	3.8 = 3	3rd day of class
*Do not count holidays, weekends, or any other day the class is not scheduled to meet.		
Lecture and Lab on same day for a course is considered 1 class meeting when calculating refunds.		

### Refund to Students

#### Refund or Reversal of Enrollment Fees and Tuition

Refund or reversal of enrollment fees and tuition shall be made following cancellation or withdrawal from class(es) in accordance with the following schedule.

Refunds shall be initiated upon receipt of a written request to the Business Office. Requests may also be made online at <http://www.fresnocitycollege.edu/admissions-aid/business-office/fee-reversals-and-refunds.html>

Refund requests are subject to an audit of the student's record to verify balance. Credit balances may be carried forward to the new term in lieu of a refund. Balances greater than or equal to \$15 will remain on the account for three years and amounts less than \$15 will remain on the account for one year.

#### Primary Term-Length (Full Semester) Classes, 18 Weeks

- Withdrawal during the first two weeks of the semester 100% refund
- Withdrawal after the second week of the semester no refund

#### Summer/Short-Term Classes

State code defines the drop deadlines to qualify for fee refund/reversals of enrollment fees for short-term classes as on or before 10 percent of the duration of the class.

- A 100% refund is given upon withdrawal by the 10 percent point.
- No refund is given after withdrawal beyond the 10 percent point.

#### Refund of Health Fee

Students receive a refund upon complete withdrawal from all classes in accordance with the enrollment and tuition fee refund schedule.

#### Refund of Parking Fee

Full refunds for parking permits will be made during the first two weeks of the fall/spring semesters and the first week of the summer sessions upon proof of complete withdrawal from school. The parking permits must be attached to a Request for Refund form and returned to the College Business Office in order to obtain the refund. There is no refund for limited-term parking permits.

#### Refund of Associated Student Body Membership

A refund policy for Associated Student Body membership has been adopted by the students. This policy provides for full refund during the first week of classes and one-half refund during the second week. No refunds will be made after the second week.



# ACADEMIC REGULATIONS

## Units of Academic Credit

The standard quantity for measurement of college work is a unit. One unit generally equals one hour of classroom lecture per week plus two hours of study. Using this formula, a class that meets in lecture three times a week for one hour will be worth three units. This college operates on the semester system and all references to units of academic credit in this catalog are to semester units. Quarter units from other colleges may be converted to semester units by decreasing the number of quarter units by one-third.

## Full-Time Enrollment

The normal semester load is 15 units. Students enrolled in 12 or more units are considered full-time students. Students with regular admission status who are not on academic probation may take as many as 18 units. Students on academic probation are normally limited to 12 units.

Permission to enroll in excess of 18 units is granted only when unusually high scholarship and urgent need prevail. Counselors can approve a student request to take 19 to 21 units. Students who wish to take 22 or more units may obtain a petition for this purpose in the Counseling Center.

The student who desires to be a candidate for graduation in two years must carry an average of 15 units per semester. The following classifications have been established:

- *Freshman* ..... fewer than 30 units completed
- *Sophomore*..... 30 or more units completed

Students who work are urged to be realistic in balancing the number of academic units undertaken in view of outside hours of work. Normally, each unit undertaken requires two hours of outside study for each hour of class lecture.

## Summer Units Allowed

All students are limited to 18 units in all summer sessions, with no more than 8 units allowed in a four-week session. Disqualified students and students on probation are

required to have a counselor's approval before registering for any summer session(s). Disqualified students and students on probation who have obtained a counselor's approval to register for any summer session(s) must also have a counselor's approval before adding any class(es) in any summer session(s).

## Non-Credit Classes

Non-credit classes are classes in which the student receives neither units nor a grade; however, at the completion of the course the registrar will record on the transcript that such a course was completed.

Students will be governed by the same attendance policies and responsibilities as those students taking credit classes. (A student may not attend a class without enrolling.)

*Note: Credit status is required for pursuit of Associate Degrees and Certificates of Achievement.*

## Distance Education

Online courses and programs provide opportunities for students to pursue their educational goals in a flexible format. Online courses are offered both asynchronous and in real-time, while partially online/hybrid courses require one or more scheduled class meetings in person. All credit courses meet the requirements and standards established by the college. Online courses are rigorous. Students can find strategies and guidance in the Student Support Hub in Canvas, FCC's learning management system. Consistent access to a computing device and the internet are necessary for success. Several applications do not operate on a mobile device or Chromebook. Students need to check each course section they are considering for enrollment. Virtual student services are available to all students. Students must be physically present in California to be eligible for online classes. You can visit the Distance Education webpage for frequently asked questions at <https://www.fresnocitycollege.edu/academics/online-learning/support.html>.

## Attendance

Students may be dropped from class if they fail to attend the first class session of the semester. There are no institutionally approved excused absences for any reason. Only your instructor may excuse an absence. Absences caused by personal engagements, transportation delays and business affairs will not be excused, nor will absences from class to complete registration or add/drop activities.

Students are expected to be in the classroom at the time the class begins. Instructors are required to take attendance at each class session and unless there are extenuating circumstances, the student who is absent for two successive weeks of instruction may be dropped from class if absences are within the 50 percent drop deadline (50 percent of the class term). Lack of regular attendance after the 50 percent drop deadline may result in an unsatisfactory grade.

Once dropped, should a student believe there is just cause for reinstatement, the student may petition through the office of Admissions and Records. Reinstatement is at the discretion of the faculty member.

## Illness

Students who have a communicable disease or any illness or injury which will cause an absence of one week or more may notify the Health Services office. In these circumstances, the Health Services office will transmit messages to instructors. Students may call the Health Services office at (559) 442-8268.

The Health Services office may exclude any student from campus who is infected with any contagious or infectious disease (Title 5, California Code §48211 and 48212).

The student will be permitted to return when school authorities are satisfied that any contagious disease does not exist (Education Code §49451).

## Makeup Work

Makeup work, if allowed by instructor, must be completed to the satisfaction of the instructor of the course. Being excused from class does not relieve the student from the responsibility for completing all assignments.

## Final Examinations

Class examinations on a semester's work are given at the close of each semester. Failure to attend the examination may result in a grade of "F" for the examination. Arrangements for emergencies may be made with approval of the individual instructor and the dean of the appropriate division.

## Grading System

Grades are earned in each course and are recorded on students' permanent records. Grades represent the evaluation of student achievement of course objectives and learning outcomes. The college uses a five-letter grading system. *A*, *B*, *C*, and *P* are passing grades, satisfactory or better. *D* is a passing but less than satisfactory grade. *F* is a failing grade. *NP* is a less than satisfactory or failing grade; it is not a passing grade. Units of credit are earned for all passing grades (*A*, *B*, *C*, and *D*). Grade symbols are defined and grade points are earned for units of credit as follows:

EVALUATIVE GRADE SYMBOLS	MEANING	GRADE POINTS PER UNIT
A	Excellent	4.0
B	Good	3.0
C	Satisfactory	2.0
*D	Passing, less than satisfactory	1.0
F	Failing	0.0
P	Pass	0.0 (A passing grade, satisfactory or better)
NP	No Pass	0.0 (Not a passing grade, less than satisfactory or failing)
Y	Completion of non-credit course	0.0
N	Non Completion of non-credit course	0.0

\* The "D" grade is passing but is not considered satisfactory for meeting the graduation requirements in Math, Reading, Writing, Communication, and Computer Literacy. In addition, the "D" grade is passing but is not considered satisfactory for meeting many of the college degree, major, or course prerequisite requirements. Also, the "D" grade may not satisfy transfer requirements to four-year institutions

In addition to the evaluative symbols listed above, non-evaluative symbols may be assigned to students' permanent records in specified conditions. No units of credit are earned for courses to which these non-evaluative symbols are assigned. The non-evaluative symbols are defined as follows:

NON-EVALUATIVE SYMBOLS	MEANING	GRADE POINTS PER UNIT
I	Incomplete	0.0
W	Withdrawal	0.0
EW	Withdrawal for Extenuating Circumstances	0.0
MW	Military Withdrawal	0.0
IP	In Progress	0.0
RD	Report De-layed	0.0

### I, Incomplete

The *I*, *Incomplete*, symbol may be assigned in a course only by approval of the course instructor if all of the following conditions are met:

- The student has completed all but the final examination or other minimal amount of course work required for a final semester grade.
- The student has a serious and verifiable reason for not completing the required course work.
- The student has a passing grade in the course at the time the incomplete, *I*, grade is assigned.
- The student requires no additional class time for completion of the course.

In assigning an incomplete, *I*, grade, an instructor will specify, on the appropriate grade report form, a list of conditions necessary for the removal of the incomplete grade, the time period allotted to the student to satisfy these conditions, and the evaluative grade symbol to be assigned if the listed conditions are not satisfied within the allotted time period.

An incomplete, *I*, grade will not affect the academic status of a student, but it will affect the progress status. An incomplete, *I*, grade must be replaced by the appropriate evaluative grade symbol no later than one full semester after it has been assigned (excluding summer), though an earlier limit may be specified by the course instructor. Students may not re-enroll in a course for which they have received an incomplete, *I*, grade during the time that the incomplete, *I*, grade is in effect.

### W, Withdrawal

Withdrawal from a course or courses shall be authorized through the last day of the ninth week of instruction (or 50 percent of the course, whichever is less). The *W* will not be used in calculating a student's grade point average, but it will be used as a factor in progress probation and dismissal procedures. A student who remains in a course beyond the withdrawal deadline must be assigned an evaluative or non-evaluative symbol other than *W*.

### EW, Excused Withdrawal

An "EW" symbol is recorded upon approval of a Petition to Withdraw Under Extenuating Circumstances.

### MW, Military Withdrawal

The military withdrawal symbol is authorized any time a student, who is a member of an active or reserve United States military service, receives orders compelling a withdrawal from courses. The *MW* symbol is assigned by the registrar upon verification of such orders. Military withdrawals shall not be counted in progress probation and dismissal procedures.

### IP, In Progress

*IP* is assigned only in a course which extends beyond the normal end of an academic term. It indicates that course work is in progress and an evaluative grade symbol will be assigned when that work is completed. The *IP* is assigned to a student's permanent record to satisfy enrollment documentation, and the appropriate evaluative grade symbol will be assigned and appear on the student's permanent record for the term in which the course is completed.

### RD, Report Delayed

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

### P/NP, Pass/No Pass

Most college courses allow students the option of a final course grade of *P*, *Pass*, or *NP*, *No Pass*, instead of traditional letter grades (*A*, *B*, *C*, *D*, or *F*). Some courses are graded only on a *Pass/No Pass* basis. In courses graded only on the *Pass/No Pass* basis or when a student elects this grading option, the grade of *P*, *Pass*, will be assigned if the student has passed the course with a grade equivalent of *A*, *B*, or *C*, and credit will be awarded for the unit value of the course.

The grade of *NP, No Pass*, will be assigned if the student earns the grade equivalent of *D* or *F*, and no units of credit will be awarded for the course. Neither the *P, Pass*, grade nor the *NP, No Pass* grade is included in the calculation of the grade point average at this institution.

A maximum of 15 units of credit may be earned on a *Pass/No Pass* grading basis in degree-applicable or transferable courses. The *Pass/No Pass* option is not recommended for any course in a student's major. Not all courses graded on a *Pass/No Pass* basis are accepted for transfer by other institutions. Students planning to transfer to another college or university should be aware of the policy of that institution regarding *Pass/No Pass* grades.

Students may elect the *Pass/No Pass* grading option in courses in which it is available by notifying the college Office of Admissions and Records, using the appropriate online form, available at <http://onlineforms.scccd.edu/passnopath.aspx>, no later than the end of the fifth week of a full-term course or within the first 30 percent of a shorter-term course. Students who have elected the *Pass/No Pass* grading option may reverse this decision only within these same deadlines.

Deadlines for selecting (or reversing) the *Pass/No Pass* grading option:

For a regular 18-week class	By end of fifth week
For all short-term classes (including summer)	By 30% of total class meeting dates (this will vary class by class)

## Student Grade Review

If a student is of the opinion that a grade received for a particular course is improper, the student may take action as follows:

1. Discuss the grade received with the instructor involved, or
2. Obtain a Student Grade Review Petition from the Admissions and Records Office. Complete the form for processing no later than the last day of the semester (excluding summer sessions) following the semester for which the grade was received. The student will be notified of action taken.
3. If a student wishes to appeal the decision, the student may submit a written grievance. See Student Grievance Procedure.

## Grade Point Average (GPA)

A student's grade point average (GPA) is computed by dividing the total number of grade points earned by the total number of grade point units. Units for which a grade or other symbol of *CR, NC, P, NP, W, I, IP, MW, EW, RD, N, Y, or X* is assigned are not counted as grade point units in the calculation of a grade point average.

## Satisfactory Scholarship

Students must achieve at least a "C" average each semester and maintain a 2.0 cumulative grade point average. This means that a student must have at least twice as many grade points as grade point units. See *Placement on Academic Probation*.

## Earning Course and Unit Credit

In addition to earning credits in residence by attending classes, a student may also earn credits in the following ways:

Fresno City College shall award general education credit to any student who passes a College Board AP examination with a minimum score of three in the subjects listed on the following chart. The college will award elective credit for AP examinations in subjects that are not included in the general education patterns designated on the following chart.

The college will also award associate degree general education credit for passing grades on IB and CLEP external exams. Students should consult with a counselor for information on IB and CLEP general education credit if they plan to transfer to a CSU or UC.

This policy does not apply to course-to-course credit for AP/CLEP/IB exams. Course-to-course equivalency is determined by the faculties at Fresno City College. Please meet with a counselor at Fresno City College to discuss the course-to-course equivalency process.

## Advanced Placement Exams (AP)

Fresno City College	Fresno City College	Fresno City College	CSU GE Area	CSU GE	IGETC Area
AP Examination/Subject Area	Minimum Score	GE Area	GE Area (units)	GE + Elective	GE Area (units)
ART: ART HISTORY	3	C: Humanities (3)	C1 or C2 (3)	6	3A or 3B (3)
BIOLOGY	3	A: Natural Sciences (4)	B2 & B3 (4)	6	5B & 5C (4)
CALCULUS AB	3	Math Competency & D2: Language & Rationality (5)	B4 (3)	3	2A (3)
CALCULUS BC	3	Math Competency & D2: Language & Rationality (5, 4)	B4 (3)	6	2A (3)
CALCULUS BC/AB Subscore	3	Math Competency & D2: Language & Rationality (5)	B4 (3)	3	2A (3)
CHEMISTRY	3	A: Natural Sciences (5)	B1 & B3 (4)	6	5A & 5C (4)
CHINESE LANGUAGE and CULTURE	3	C: Humanities (3)	C2 (3)	6	3B & 6 (3)
COMPARATIVE GOVERNMENT AND POLITICS	3	B: Social & Behavioral Sciences (3)	D (3)	3	4 (3)
COMPUTER SCIENCE A	3	Elective (3)	N/A (Only one CS exam may be applied)	3	N/A
COMPUTER SCIENCE PRINCIPLES	3	Elective (3)	N/A (Only one CS exam may be applied)	6	N/A
ECONOMICS: MACROECONOMICS	3	B: Social & Behavioral Sciences (3)	D (3)	3	4 (3)
ECONOMICS: MICROECONOMICS	3	B: Social & Behavioral Sciences (3)	D (3)	3	4 (3)
ENGLISH LANGUAGE/COMPOSITION	3	Writing/ Reading Competency & D1: Language & Rationality (4)	A2 (3)	6	1A (3)
ENGLISH LITERATURE/COMPOSITION	3	Writing/ Reading Competency & C: Humanities D1: Language and Rationality (4, 3)	A2 & C2 (6)	6	1A or 3B (3)
ENVIRONMENTAL SCIENCE	3	A: Natural Sciences (4)	B1 & B3 (4)	4	5A & 5C (3)
FRENCH LANGUAGE and CULTURE	3	C: Humanities (5)	C2 (3)	6	3B & 6 (3)
GERMAN LANGUAGE and CULTURE	3	C: Humanities (5)	C2 (3)	6	3B & 6 (3)
HISTORY, EUROPEAN	3	B: Social & Behavioral Sciences or C: Humanities (3)	C2 or D (3)	6	3B or 4 (3)
HISTORY, U.S.	3	B: Social & Behavioral Sciences (3)	C2 or D & U.S.-1 (3)	6	3B or 4 & US-1 (3)
HISTORY, MODERN WORLD	3	B: Social & Behavioral Sciences (3)	C2 or D (3)	3	N/A
HISTORY, WORLD	3	B: Social & Behavioral Sciences (3)	C2 or D (3)	6	3B or 4 (3)



Fresno City College	Fresno City College	Fresno City College	CSU GE Area	CSU GE	IGETC Area
HUMAN GEOGRAPHY	3	B: Social & Behavioral Sciences (3)	D (3)	3	4 (3)
ITALIAN LANGUAGE and CULTURE	3	C: Humanities (3)	C2 (3)	6	3B & 6 (3)
JAPANESE LANGUAGE and CULTURE	3	C: Humanities (3)	C2 (3)	6	3B & 6 (3)
LATIN	3	C: Humanities (3)	C2 (3)	6	3B & 6 (3)
MUSIC THEORY	3	Elective (3)	N/A	6	N/A
PHYSICS 1	3	A: Natural Sciences (4)	B1 & B3 (4)	4	5A & 5C (4)
PHYSICS 2	3	A: Natural Sciences (4)	B1 & B3 (4)	4	5A & 5C (4)
PHYSICS C MECHANICS	3	A: Natural Sciences (4)	B1 & B3 (4)	4	5A & 5C (3)
PHYSICS C, ELECTRICITY/ MAGNETISM	3	A: Natural Sciences (4)	B1 & B3 (4)	4	5A & 5C (3)
PSYCHOLOGY	3	E2: Lifetime Skills (3)	D (3)	3	4 (3)
SPANISH LANGUAGE and CULTURE	3	C: Humanities (5)	C2 (3)	6	3B & 6 (3)
SPANISH LITERATURE and CULTURE	3	C: Humanities (3)	C2 (3)	6	3B & 6 (3)
STATISTICS	3	Math Competency& D2: Language & Rationality (4)	B4 (3)	3	2A (3)
STUDIO ART – 2D DESIGN	3	Elective (3)	N/A	3	N/A
STUDIO ART – 3D DESIGN	3	Elective (3)	N/A	3	N/A
STUDIO ART – DRAWING	3	C: Humanities (3)	N/A	3	N/A
U.S. GOVERNMENT & POLITICS	3	F: Government & American Institutions (3)	D & US-2 (3)	3	4 & US-2 (3)

*\*Other Advanced Placement (AP) exams not listed on this chart may be applied toward CSUGE and IGETC certification. Some AP exams allow for additional elective credit that may be applied toward transfer. Satisfaction of specific major requirements is granted by the CSU and UC campus. Consult with a counselor for complete information on AP credit.*

### Advanced Placement Program Credit (AP)

Courses offered through the College Entrance Examination Board are recognized and individual colleges of this district are authorized to award appropriate placement and/or credit for these courses in accordance with established college standards. Petitions to apply for credit may be obtained from the Admissions and Records Office. Please meet with a counselor at Fresno City College to discuss the course-to-course equivalency process.

A residency of 12 units of satisfactory work ("C" average) must be completed at Fresno City College prior to allowance of credit under this program. Currently, AP credit is granted as follows:

### Humanities Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
English Lang/Comp	3	English 1A	4
English Lit/Comp	3	English 1B	3
French (Language)	3	French 3	5
Spanish (Language)	3	Spanish 3 & 4	10
Spanish (Literature)	3	Spanish 5 & 6	8

## Math, Science and Engineering Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Biology	3	Biology 3	4
Chemistry	3	Chemistry 3A	4
Calculus AB	3	Mathematics 5A	5
Calculus BC	3	Mathematics 5B	4
Physics 1 & 2	3	Physics 2A	4
Statistics	3	Mathematics 11 or 42	4

## Social Sciences Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
U.S. History	3	History 11 & 12	6
European History	3	History 2	3
World History	3	History 23	3
Macroeconomics	3	Economics 50	3
Microeconomics	3	Economics 40	3
Comparative Govt	3	Political Science 5	3
US Govt & Politics	3	*Political Science 2	3
Psychology	3	Psychology 2	3

- \*Note: To initiate a Course Substitution for Political Science 2 at Fresno City College through Admissions and Records, the student must successfully submit the following documents for the division to review: 1) Official records of the AP United States Government & Politics exam indicating a score of 3 or higher 2) Official transcripts from an accredited college where a student earned a final grade of "C" or higher in a 1 unit (minimum) course covering California State and Local Government/Politics.

- Note: AP credit in American Government does meet the U.S. Constitution requirement for teaching credential candidates (Ed. Code Sec. 13132). However, it does NOT satisfy the requirements of Political Science 2 because it does not address state and local requirements (Ed. Code Sec. 40404). Candidates seeking a BA/BS at a California State University must satisfy national, state and local government requirements. The requirements at the University of California vary by campus.

## College-Level Examination Program (CLEP)

The College-Level Examination Program (CLEP) is designed to be a means through which recognition, academic credit and advanced placement may be given for less conventional forms of education. Those who may have reached a college level of education in certain areas through home or correspondence study, on-the-job training, television courses, and/or other means may take certain CLEP examinations which are offered by the College Entrance Examination Board.

To obtain information and make arrangements to challenge one of the exams listed, individuals may contact the Educational Testing Office at California State University, Fresno (559) 278-2457. Upon receiving the minimum score listed for each exam, students may petition for academic credit for specific CLEP subjects by submitting the official CLEP Test result to the Fresno City College Admissions and Records Office.

A residency of 12 units of satisfactory work ("C" average) must be completed at Fresno City College prior to allowance of credit under this program. Please meet with a counselor at Fresno City College to discuss the course-to-course equivalency process.

## Business Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Financial Accounting	50	ACCTG 4A	4
Business Law	50	BA 18	4
Intro to Business	50	BA 10	3
Computer Concepts	50	CIT 15	3

## Humanities Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
American Literature	50	ENGL 48A & B	6
College Composition	50	ENGL 1A	4
Engl Comp (General) (1978 through April 1986)	500	ENGL 125	4
Engl Comp (General) (after May 1986 or before 1978)	390	ENGL 125	4
Engl Comp w/ Essay	*600	None	
English Literature	50	ENGL 46A & 46B	6
Humanities (General)	500	ENGL 45 & ART 6	6

## Math, Science and Engineering Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Trigonometry	50	MATH 4A	4
Microbiology	50	BIOL 31	5
Natural Sciences (Gen)	500	Natural Science1A	4

## Social Sciences Division

EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Afro-American History	50	AFRAM 1	3
American Government **	50	None	
American History I	50	HIST 11	3
American History II	50	HIST 12	3
Macroeconomics, Intro	50	ECON 50	3
Microeconomics, Intro	50	ECON 40	3
Sociology	50	SOC 1A	3
Psychology, General	50	PSY 2	3
Western Civilization I	50	HIST 1	3
Western Civilization II	50	HIST 2	3
Soc Sci & Hist (Gen.)	500	Soc Sci	

\* Meets California State Teacher Certification (Proficiency) requirements.

\*\* Satisfies U.S. Constitution requirements for State Certification (Ed. Code Sec. 1312; not for Ed. Code 40404).

International Baccalaureate (IB) Exams  
(Higher Level only)

Credit for lower division major preparation is granted for International Baccalaureate Higher Level examinations for Fresno City College equivalent courses as listed below. Petitions to apply for credit may be obtained from the Admissions and Records Office. Please meet with a counselor at Fresno City College to discuss the course-to-course equivalency process.

Fine, Performing, and Communication Arts  
Division

IB EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Theatre HL	4	Theatre Arts 30 & 41	6

Humanities Division

IB EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Language A: Lang/Lit HL	4	English 1B & 40	6
Language A: Literature HL	4	English 1B & 40	6

Math, Science, and Engineering Division

IB EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Biology HL	5	Biology 3	4
Chemistry HL	5	Chemistry 3A	4

Social Sciences Division

IB EXAM TITLE	MINIMUM SCORE	EQUIVALENT FCC COURSE	UNITS GRANTED
Economics HL	5	Economics 25	3

International Baccalaureate may also be used to fulfill one or more GE areas.

FRESNO CITY COLLEGE: INTERNATIONAL BACCALAUREATE (IB)	CSU GE AREA: MINIMUM SCORE	CSU GE AREA: GE AREA (UNITS)	IGETC AREA: MINIMUM SCORE	IGETC AREA: GE AREA (UNITS)
IB Biology HL	5	B2 (3)	5	5B (3)
IB Chemistry HL	5	B1 (3)	5	5B (3)
IB Economics HL	5	D (3)	5	4B (3)
IB Geography HL	5	D (3)	5	4E

FRESNO CITY COLLEGE: INTERNATIONAL BACCALAUREATE (IB)	CSU GE AREA: MINIMUM SCORE	CSU GE AREA: GE AREA (UNITS)	IGETC AREA: MINIMUM SCORE	IGETC AREA: GE AREA (UNITS)
IB History (any region) HL	5	C2 or D (3)	5	3B or 4F (3)
IB Language A Literature HL (any language, except English)			5	3B and 6A (3)
IB Language A Language and Literature HL (any language, except English)			5	3B and 6A (3)
IB Language A Literature HL (any language)	4	C2 (3)	5	3B (3)
IB Language A Language and Literature HL (any language)	4	C2 (3)	5	3B (3)
IB Language A1 (any language) HL	4	C2 (3) F13*		
IB Language A2 (any language) HL	4	C2 (3) F13*		
IB Language B (any language) HL	4	n/a	5	6A (3)
IB Mathematics HL	4	B4 (3)	5	2A (3)
IB Physics HL	5	B1 (3)	5	5A (3)
IB Psychology HL	5	D (3)	5	4 (3)
IB Theatre HL	4	C1 (3)	5	3A (3)

## Credit by Examination

To be eligible for course credit by examination, a student must be enrolled at the college and be in good standing during the semester in which they apply for credit by examination. Credit by examination will not be allowed if the student has received previous college credit for the course, or if the student previously enrolled and received a grade of W, or is currently enrolled in a course for which the course to be taken by exam is a prerequisite. The college reserves the right to deny credit by examination to any student.

The faculty of each department determine which department courses may or may not be challenged for credit by examination. See the appropriate department chair or dean of instruction to learn which courses may be taken for credit by examination and to ascertain the proper procedure for credit by examination.

A student planning to transfer to another college or university should be aware of the policy of that institution regarding transferability of courses. Application for credit by examination approved by the discipline faculty, the department chair, and the appropriate dean of instruction must be filed with the Admissions and Records Office no later than the end of the sixth week of the semester.

Units earned from credit by examination courses are not counted for financial aid or veterans' benefits eligibility. No financial aid of any kind is available for credit by exam.

An appropriate fee for expense of this special service is charged for each course challenged and is payable by the end of the ninth week of the semester. Student must make arrangements with the instructor to take the examination prior to the fifteenth week of the semester.

The letter grade (A-F) earned on the examination will be awarded at the time grades are submitted to the Admissions and Records by the instructor giving the examination and will be entered on the student's transcript in a manner which clearly indicated that the course grade and credit were earned by examination. A student who fails the credit by examination may not attempt the course again by credit by examination.

## Credit for Military Service

A veteran/service person who has completed at least one year of active duty may submit military documents and transcripts for possible Fresno City College course credit. The documentation must delineate completion of basic military training or credit earned in a service person's opportunity college.

A Veteran, who completes basic training, will automatically receive the following semester credit hours for the respective branch of Military service:

### Army

- 1 credit hour – Physical Conditioning/Fitness
- 1 credit hour – Marksmanship
- 1 credit hour – Outdoor Skills
- 1 credit hour – First Aid

### Navy

- 1 credit hour – Physical Conditioning/Fitness
- 1 credit hour – Personal/Community Health
- 1 credit hour – First Aid and Safety
- 1 credit hour – Swimming

### Marines

- 1 credit hour – Physical Conditioning/Fitness
- 1 credit hour – Marksmanship
- 1 credit hour – Outdoor Skills
- 1 credit hour – First Aid/Health

### Air Force

- 1 credit hour – Physical Conditioning/Fitness
- 1 credit hour – Marksmanship
- 1 credit hour – Outdoor Skills
- 1 credit hour – First Aid/Safety

### Coast Guard

- 1 credit hour – Physical Conditioning/Fitness
- 1 credit hour – Swimming
- 1 credit hour – Boating/Seamanship
- 1 credit hour – First Aid

Veterans may also receive non-transferable elective credit for in-service education, training, and/or their military occupational specialty (MOS). A maximum of 30 units, including the basic training credit listed above, will be allowed.

Active duty reservists who have completed basic training, but served less than one year of active duty, are allowed a total of four (4) semester credit hours of elective credit which includes (2) semester credit hours of physical conditioning which can be used to fulfill the PE graduation requirement.

To receive military credit hours, the student must present a copy of their DD 214 or other appropriate documents citing pertinent data to the Fresno City College Veterans Office.

## Credit for Prior Learning (CPL)

Credit for prior learning is college credit awarded for validated college-level skills and knowledge gained outside of a college classroom.

This CPL definition does not include knowledge and skills already assessed and awarded credit through formal education at regionally accredited in-state and out-of-state institutions.

*Credit for Prior Learning Categories*

Students may demonstrate proficiency in a course eligible for CPL and receive college credit through the approved alternative methods for awarding credit listed below. All options may not apply for every course. The faculty determine which method, if any, is appropriate for a specific course.

- Advanced Placement (AP) Examination
- International Baccalaureate (IB)
- College Level Examination Program (CLEP)
- Military Transcripts (may include Joint Services Transcript (JST), Sailor/Marine American Council on Education Registry Transcript (SMART), Army and American Council on Education Registry Transcript Service (AARTS), Community College of the Air Force (CCAF), Coast Guard Institute (CGI), DANTES/USAFI, Defense Language Institute Foreign Language Transcripts (DLIFLC), Defense Manpower Data Center (DMDC), DLPT Examinee Results, DA Form 330 Language Proficiency Questionnaire, or verified copies of DD214 or DD295 military records.)
- Examination administered by other agencies
- Industry-recognized credential documentation
- Student-created portfolios
- Credit by examination

*CPL Assessment Methods*

Qualified discipline faculty shall determine the CPL assessment that is appropriate for the student based on their experiences, and credit will be determined by qualified faculty who conduct the CPL assessment.

Examination: Credit by examination is a process whereby discipline faculty administer a locally-developed exam to determine whether a student can demonstrate sufficient mastery of the learning outcomes of that course. The college may charge a fee.

Assessment: This type of assessment can include a student developing a portfolio or completing a skills demonstration that is evaluated by faculty. This can also include faculty evaluating a Joint Services Transcript, or developing a "cross-walk" in which they assess the competencies a student achieved in a prior learning experience and determine whether they match the student learning outcomes of a designated course. College faculty can consult credit recommendations made by the American Council on Education (ACE) in assessing prior learning experiences. Once a faculty member has assessed a standard/common training, the credit

recommendation can be made available for other faculty to consider for other students with identical credentials to prevent duplication of assessment and encourage consistency in credit for identical experiences. Students cannot be charged a fee for these types of assessments (this includes standardized tests, such as Advanced Placement (AP), International Baccalaureate (IB), CLEP, Defense Language Proficiency Test, and others).

*Credit for Prior Learning Process*

Step 1 - In consultation with a counselor, the student determines that they are eligible for CPL through an intake process.

Step 2 - Student is referred to discipline faculty.

Step 3 - Discipline faculty conduct the appropriate assessment.

*Eligibility for CPL*

- Current students must have an education plan on file.
- The course for which the student is seeking credit is listed in the current college catalog.
- The student is not currently enrolled in the course to be challenged past census date.
- Credit by Examination:
  - o The student is registered in the District and not currently enrolled in nor received credit for a more advanced course in the same subject (may be waived by department).
  - o The student must be in good academic standing the District.
  - o The course can only be challenged once, unless the College Vice President of Instruction determine that there are extenuating circumstances that justify a subsequent retake. Credits acquired by prior learning are not applicable to meeting such unit load requirements as Selective Service deferment, Veterans, or Social Security benefits. Credit acquired by prior earning shall not be counted in determining the 12 semester hours of credit in residence required for an associate degree.

*Transcript*

The student's academic record shall be clearly annotated to reflect that credit was earned by an assessment for prior learning in lieu of a specific course.

## Individual Study

Individual Study 49 is a course that allows students to work individually with an instructor on a creative research project culminating with a topic paper, construction project, composition, etc. It allows exploration in greater depth than can be experienced in a regular course or may delve into subject matter not normally covered in a regular course.

A contract between the student and instructor must be developed, signed by the instructor, and approved by the dean.

Student must register for Individual Study 49 no later than the end of the third week of a regular semester or the fifth day of the six-week summer session.

## Travel-Study Credit

Credit granted by accredited colleges and universities for travel-study programs sponsored by these institutions will be accepted by Fresno City College. For college-level travel-study programs credit up to 12 semester units (at the maximum rate of one unit per week) may be granted upon the evaluation of official transcripts sent to Fresno City College by the institution through which the units are earned.

## Withdrawal/Dropping

### Withdrawal from College

A student may withdraw from all of his/her classes, thereby withdrawing from the college through the last day of the ninth week of instruction (or 50 percent of a term\*, whichever is less) online or in person with the Admissions and Records office. The student may also mail or fax a signed letter of request postmarked by the 50 percent point to completely withdraw from his/her classes to the Admissions and Records Office (please include student identification and date of birth). Students are encouraged to discuss complete class withdrawals with an academic counselor. Upon submission of a withdrawal form, the student will be withdrawn from all of his/her classes and an entry of "W" will be recorded for each class in which the student was enrolled. The "Ws" will not be used in calculating grade point averages, but excessive "Ws" will be used as factors in progress probation and dismissal procedures.

### Dropping/Withdrawal Due to Extenuating Circumstances

- Exceptions to the 50 percent drop deadline may apply due to extenuating circumstances.

Extenuating circumstances are verified cases of accidents, illnesses, death in the immediate family, jury duty, declaration of war, natural calamity, military conscription, family or job displacement, instructor error, or other circumstances beyond the control of the student which are justifiable in the judgment of the college president or their designee. (CCR, Title 5, Section 55024.)

Petitions for withdrawal due to extenuating circumstances are available from the Admissions and Records Office.

1. The extenuating circumstances must be fully documented and verified when appropriate.
2. The petition for withdrawal must be submitted no later than the end of the semester immediately following the semester in which the extenuating circumstance occurred.
3. The student must petition to withdraw from all classes she/he is enrolled in (consult with Admissions & Records for certain exceptions that may apply).
4. The student's instructor(s) may be consulted concerning the request for withdrawal.
5. Approved class withdrawals due to extenuating circumstances shall be recorded as an "EW." The "EW" shall not be used in the following: calculating grade point average, towards progress probation or dismissal calculations, towards the permitted number of withdrawals, or counted as an enrollment attempt.
6. Exceptions may be considered on a case-by-case basis upon appeal to the college's Academic Standards Committee.

*\* Term in this context means the duration of a class, which may differ from the length of the normal semester.*

## Academic Renewal

An open-door college should provide ample opportunity for students to succeed. Since the community college admits students with a diverse range of abilities, aspirations and interests, the college must provide sufficient flexibility in its policies to enable a student to overcome a poor academic record. While the college must have a balance between policy flexibility and the maintenance of academic regulations so as to ensure grade standards throughout the curricula, this flexibility cannot be allowed to abrogate the individual student's educational responsibility.

## Course Repetition

For the purpose of course repetition and all other grade-related issues:

- Substandard grades or marks shall be defined as meaning course work for which the student has earned a “D” “F” “NP” “NC” or “W”.
- Satisfactory grades shall be defined as meaning course work for which the student has earned a “C” or better, “P” or “CR” grade.
- A mark of “W” is recorded for a withdrawal from a course on or after the census point or 30% of the semester (whichever is less) and before the end of the ninth week or 50% of the class meeting dates.

Per AR 4225, “extenuating circumstances” are taken to mean verified cases of accidents, illness, or other circumstances beyond the control of the student.

### Repetition of Courses Designated as Non-Repeatable

For the benefit of a better grade, students may repeat a course for which they have received substandard grades or marks for a total of three attempts.

- Students may repeat a course one time without petitioning (2nd attempt).
- Students must meet with an academic counselor to repeat a course for which two substandard grades or marks (3rd attempt) have been earned.
- Students must petition to the Academic Standards Committee to repeat a course for which three or more substandard grades or marks (4th attempt or greater) have been recorded.

The first two substandard grades will be excluded in computing the GPA if the student repeats the course two or more times. The student's academic record will be marked so that all grades remain legible, ensuring a true and complete academic history.

A student who has earned a substandard grade in a course at Fresno City College and repeats the equivalent course successfully (“C” or better) at another accredited college or university, can petition through the Admissions and Records office for an Alleviation of Substandard grade.

A student who has completed a course with a substandard grade at another accredited college or university may repeat the equivalent course in the State Center Community College District (SCCCD). Upon completion of the Fresno City College course, the student must request an official transcript be sent to the college or university where the substandard grade was earned.

### *Petition to Repeat Courses for Alleviation of Substandard Grades*

Students who wish to petition to repeat a course for which two or more substandard grades or marks have been recorded, may do so through the Admissions and Records office.

- To petition to repeat a course for a third attempt, Fresno City College students are required to meet with a counselor for review.
- To petition to repeat a course for a fourth or more attempt, Fresno City College students are required to meet with a counselor and complete or update their comprehensive student education plan (C-SEP) and provide statements as to:
  1. Why the student has been unable to complete the course work successfully; supporting documentation may be provided as well.
  2. Why the student will be able to be successful in college in the future. What will be different now and in the future?

If the petition is approved by the Academic Standards Committee, students will only be able to register for the course starting with the first day of class and the grade earned in the fourth or more attempts will be averaged with the third grade earned in computing the cumulative grade point average.

### *Repetition of Courses with a Satisfactory Grade*

A course in which a satisfactory grade was earned may be repeated when circumstances exist which justify such a repetition. Students must petition the Academic Standards Committee for approval through the Admissions and Records office.

Reasons for such repetition include but are not limited to:

- significant lapse in time (no less than 36 months since the grade was obtained)
- significant change in industry or licensure standards
- the course is legally mandated for employment or licensure
- the previous grade was due, at least in part, to the result of verified extenuating circumstances beyond the student's control
- course repetition is required as a special academic accommodation for a qualified Disabled Students Programs and Services student

If the petition is approved and a student completes the course, the course and grade will be listed on the academic record, and will be coded with a symbol indicating the course is excluded in the computation of the grade point average, with the exception for repetitions for legally mandated training.



**Legally Mandated Training**

Course repetition is allowed when it is necessary for a student to meet a legally mandated training requirement as a condition of continued paid or volunteer employment. Fresno City College students must petition and present documentation that the course is necessary to the Academic Standards Committee for approval.

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

**Disabled Students**

Course repetition for disabled students is subject to the course repetition limitation; however, additional repetitions may be authorized under the following circumstances:

When continuing success of the student in other general and/or special classes,

When specific special classes are essential in completing a student's preparation for enrollment into other regular or special classes, or

When the student has a student educational contract which involves a goal other than completion of the special class in question and repetition of the course will further achievement of that goal.

Students must petition the Academic Standards Committee for approval. The course and grade will be listed on the academic record, and will be coded with a symbol indicating the course is excluded in the computation of the grade point average.

Students will be limited to a total of four enrollments, per courses related in content. An enrollment is defined as:

- Actively enrolled; or
- Previously earned grade or mark (W).

Students can view all course families lists at the Admissions and Records website.

The course families are:

COURSE FAMILY	RELATED CONTENT GROUPS
ART	Ceramics, Crafts, Drawing, Painting, Printmaking, Sculpture, Visual Art Fundamentals
DANCE	Ballet, Competition/Conference, Flexibility, Performance, Folk, Jazz, Modern, Social, Tap
MUSIC	Brass, Chamber Concert Ensemble, Guitar, Jazz Chamber Ensemble, Jazz Large Ensemble, Large Concert Ensemble, Percussion, Piano, Specialty Ensemble, Strings, Voice, Woodwinds
PHYSICAL EDUCATION	Aerobics, Archery, Badminton, Basketball, Cardio Interval Training, Circuit Training, Conditioning, Fitness & Health, Golf, Self Defense, Swimming, Tennis, Volleyball, Weight Training, Yoga
THEATRE ARTS	Acting, Competition/Conference, Performance Practicum, Technical Practicum

**Repetition of Courses Designated as Repeatable**

Repeatable courses are progressive in nature and provide an expanded education experience when repeated. These courses are identified in the college catalog indicating the maximum allowable repetitions.

If a student repeats a course designated as repeatable in which a substandard grade has been recorded, the District will exclude no more than two previous substandard grades.

**Courses Related in Content**

Pursuant with the Title 5, section 55041(c), SCCC has created Courses Related in Content (Course Families) for those active participatory courses in Art, Dance, Music, Physical Education, and Theatre Arts that are related in content. The courses related in content include courses of related content offered at each college and center.

**Academic Renewal - Alleviation of Substandard Grades without Repetition**

Substandard work, not reflective of the student's present scholastic level of performance, may be alleviated and disregarded in the computation of grade point averages. Course work that is still appropriate for the student's present educational objectives may be alleviated only by repetition (see Course Repetition, page 30). Course work thought to be no longer appropriate for repetition may be alleviated by the student making formal application to the Admissions and Records Office.



In this case, a student will be eligible for alleviation when:

- A period of at least two years has elapsed since the work to be alleviated was recorded.
- A student is pursuing a specific academic goal (associate degree or certificate program in the District).
- A student has completed 12 semester units with at least a 3.0 GPA; or
- A student has completed 24 semester units with at least a 2.5 GPA; or
- A student has completed a total program with a 2.0 GPA or better.

In determining eligibility for this provision the college will consider the most recently completed semester first and look to previous semesters total GPA in descending chronological order.

The amount of work to be alleviated shall not exceed the amount of work the student has successfully completed since the substandard work was recorded.

When academic work is alleviated, the student's permanent record shall be appropriately annotated in a manner to ensure that all entries are legible and that a true and complete academic history is maintained.

## Probation and Dismissal

### Satisfactory Progress

State law requires students to maintain satisfactory progress while enrolled at a community college. Students who do not make satisfactory progress by completing courses and/or achieving satisfactory grades will be affected in the following ways:

### Placement on Progress Probation

A student who has attempted and accumulated a total of 12 or more semester units shall be placed on progress probation when the number of units for which entries of "W," "I," "NP" and "NC" are recorded reaches or exceeds fifty percent (50%).

### Removal from Progress Probation

A student on progress probation because of an excess number of units for which entries of "W," "I," "NP" and "NC" are recorded shall be removed from progress probation when the percentage of units in this category drops below fifty percent (50%).

### Placement on Academic Probation

A student shall be placed on academic probation when:

1. The cumulative grade point average for a student who has attempted an accumulated total of 12 or more semester units falls below 2.0 in all units which were graded on the basis of letter grades, or
2. The student's cumulative grade point average falls below 2.0 in two consecutive semesters. The student will be subject to being placed on "subject to being disqualified" status.

### Removal from Academic Probation

A student shall be removed from academic probation when the student's cumulative grade point average becomes 2.0 ("C") or better.

### Counseling for Probationary Students

Each student on probation will be provided counseling and guidance service, including regulation of the student's program according to individual aptitude and achievements as determined by the counseling office. Students subject to dismissal shall have all selected courses approved by a counselor prior to registration. In addition, students who have completed 40 units or more and are on probation must have all selected courses approved by a counselor. A student on probation, whether academic or progress, may not carry more than 12 units without special approval of a counselor.

### Academic/Progress Dismissal

For purposes of this section, semesters shall be considered consecutive on the basis of the student's enrollment exclusive of summer session.

A student who has attempted in at least 12 semester units shall be dismissed for one semester, exclusive of summer session, if during each of three consecutive semesters the student's performance falls under either one or any combination of the following two conditions:

1. The student's cumulative grade point average was 2.0 or less.
2. The percentage of units in which the student was enrolled for which entries of "W," "I," "NP" and "NC" were recorded reached or exceeded fifty percent (50%).

## Circumstances for Appeal or Exception of Academic Progress Dismissal

Students who are on academic or progress dismissal for personal reasons beyond the control of the student shall, upon successful appeal, be exempted from the conditions of time imposed above.

Students on probation, either academic or progress, may not be dismissed after their third semester of below satisfactory work if during that third semester and every subsequent semester they maintain a 2.0 GPA and complete more than 50% of their units until their cumulative GPA and completed units are above the probationary level.

## Readmission Following Academic/Progress Dismissal

A student who has been dismissed because of the district's academic/progress dismissal policy must petition to be readmitted.

Following the student's first dismissal, they will not be admitted to a district college until one semester has elapsed. If the student fails to maintain a grade point average of at least 2.0, or fails to complete more than fifty percent (50%) of the units in which the student enrolled during the first semester of attendance following their initial dismissal, the student shall be dismissed for a period of one year (second dismissal). If the student fails to meet these academic and progress standards during the next semester in which they enroll, the student will be dismissed again. This third dismissal shall be considered permanent. However, a student may petition for admission after two years. Students are encouraged to improve their record by attending summer session. Petitions for readmission are available in the Counseling Center. Unit limitations and course selection will be set for readmitted students by the counseling staff.

## Reports to Students

### Final Grade Report

Final grade reports are mailed only by request to the student's address on file with the college. Grades are available on WebAdvisor under Academic Profile.

## Certifications of Enrollment

Certifications of enrollment shall be requested in writing at <https://onlineforms.scccd.edu/reqforverification.aspx>. A minimum of five working days for the preparation of certifications is required.

The following definitions are used by the college when certifying the enrollment of our students to outside agencies such as the Veterans Administration, lending institutions, the Social Security Administration, insurance companies, and the California Student Aid Commission:

DEFINITION	UNITS
Full-time	12 units or more
Three quarter-time	9 to 11.5 units
Half-time	6 to 8.5 units
Limited	fewer than 6 units

## Honors and Awards\*

### Leon S. Peters Honors Program

The Leon S. Peters Honors Program at Fresno City College recognizes and meets the needs of academically gifted students. Students who qualify, and are accepted to enter the Honors Program, benefit from an enriched educational experience that consists of a specially selected curriculum set within the framework of the transfer programs of all University of California and California State University campuses. Special honors sections of regular classes usually have 25 or fewer students per section. They are taught by specially selected, experienced and highly qualified faculty. The entire program can be completed in four semesters. Entrance into the program is competitive. For additional details about the benefits, requirements, and curriculum, see the Honors Program section in this catalog, and consult with the Honors Program Coordinator, who can be reached by emailing [honors@fresnocitycollege.edu](mailto:honors@fresnocitycollege.edu).

### Dean's List

A 3.5 grade point average for the previous semester with a minimum load of 12 units.

### Honors at Graduation

#### *High Honors*

To be recognized at commencement, a 3.3/3.49 cumulative grade point average.

### Highest Honors

To be recognized at commencement, a 3.5/4.0 cumulative grade point average.

The designation of honors in the commencement program is based on the grades earned during the semester preceding a student's graduation.

### College Sanctioned Accouterments at Graduation

To insure the best experience possible for graduation, students are asked to adhere to the College traditions when participating in this meaningful ceremony. Decorated mortarboards and/or gowns are not permitted.

The following are a list of accouterments officially sanctioned by the College for students to wear in addition to their cap and gown:

DEPARTMENT	ACCOUTERMENTS
African American Graduation	Sash
Alpha Gamma Sigma Honor Society	Gold Cord
Dean's Medallion	Medallion
President's Medallion	Medallion
High Honors	Gold Tassel
Latino Graduation	Sash
Leon S Peters Honors Program	Stoll
Phi Theta Kappa Honor Society	Gold Cord
Veteran Student	Red, White & Blue Cord



### Honor Societies

#### Alpha Gamma Sigma

The Alpha Zeta Chapter of Alpha Gamma Sigma is a scholastic honor society of California Community Colleges. Membership is based on academic achievement, involvement in community service projects and leadership development activities. Members are eligible to participate for credit in a special volunteerism course. Affiliate membership and course participation are open to students who are otherwise ineligible for regular membership. Both regular and affiliate members will be expected to maintain the highest standards of behavior and represent the organization and college in an exemplary manner. Academic qualifications: students entering from high school who are life members of CSF and those with at least a 3.5 GPA are eligible for temporary membership their first semester. Continuing students with a cumulative GPA of 3.0 in at least 12 units are eligible. Students must maintain a 3.0 GPA each semester (a one semester's grace period allowed if GPA is above 2.5). Permanent membership may be awarded to members who have completed 60 units and maintained a cumulative GPA of 3.25 for two semesters or 3.5 for one semester and have participated satisfactorily in chapter activities. Final authority on eligibility rests with faculty advisors. For additional information contact the Honors Program office by emailing [honors@fresnocitycollege.edu](mailto:honors@fresnocitycollege.edu).

#### Phi Theta Kappa

Phi Theta Kappa is the international honor society for community colleges. Theta Beta, the Fresno City College chapter, helps students to advance the society's hallmarks of scholarship, leadership, fellowship, and service on campus and in the community. Phi Theta Kappa offers support from fellow scholars of all ages, ethnic backgrounds, economic levels, and fields of study who share a variety of interests and ideas. The sense of community among members and faculty advisors allows one to take full advantage of opportunities at the college and at state and international meetings. The commonality is superior scholarship and a commitment to continuing excellence and educational opportunities. To be eligible, a student must have completed at least 12 units of college course work with a cumulative GPA of 3.5 or better. Freshmen students are also eligible for provisional membership during their first semester at the college. For further information, contact the Honors Program office by emailing [honors@fresnocitycollege.edu](mailto:honors@fresnocitycollege.edu).

*\*In all cases, unit load refers to units carried at Fresno City College.*

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# CERTIFICATE AND DEGREE REQUIREMENTS

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## Catalog Rights

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For the purpose of this section, continuous enrollment is defined as enrollment in at least one primary semester (fall or spring). Any of the following academic records constitutes as enrollment during a semester: A, B, C, D, F, P, NP, CR, NC, Y, N, I, IP, RD, W, EW, and MW.

A student may elect to meet the requirements for an academic program from one of the following:

1. The catalog in effect at the time the student first applied or reapplied and began continuous enrollment;
2. In the event of a major/program change, the student may assume new catalog rights under the following conditions:
  - The change of major/program must be approved by counselor, and
  - The major selected must be within a catalog during the student's continuous enrollment;
3. The catalog in effect at the time of the student's program completion.

## Certificates

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Certificates for a course or a series of courses may be offered by disciplines/departments/divisions. A certificate may be awarded with a minimum of "C" in each required course. These certificates will not appear on a student's transcript.

See page 88 for a list of certificates.

## Certificate of Achievement

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A certificate of achievement shall be awarded to students who successfully complete a specified curriculum (minimum of 8 units) with a minimum "C" grade in each required course.

In order to receive the certificate of achievement, the student shall apply for the certificate with Admissions and Records upon completion of the requirements.

See page 86 for a list of certificates of achievement.

## Certificate of Completion

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A certificate of completion may be awarded after meeting the designated competencies in non-credit courses.

See page 88 for a list of certificates of completion.

## Course Classification

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Pursuant to revisions to the California Administrative Code, Title 5, Sections 55002 and 55062, all courses listed within the college catalog fall into one of the following classifications:

- Credit, Degree Applicable
- Credit, Nondegree Applicable
- Noncredit

See Course Classification System, page 262, for a list of credit, nondegree applicable and noncredit courses.

## Graduation Requirements

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It is the student's responsibility to be aware of degree and certificate requirements and of the student's standing in regard to those requirements. Students are urged to consult a counselor regarding any questions about degree or certificate requirements for the catalog year the student selects.

Exceptions to any of the regulations which follow will be judged by the "Rule of Equity" which requires that any waiver of standards be determined on the merit of the individual case.

The college reserves the right to determine what courses may be considered as equivalents for the stated degree, certificate, and general education requirements listed in this catalog. Please see the appropriate division dean for pertinent information.

## General Education for the AA/AS Degree

General Education course work is intended to complement a concentrated study in a single discipline or “major.” It should provide a broad base of educational experience about aspects of the world which a major area of study may not include. The student who completes the general education requirements at Fresno City College will have made noteworthy progress towards becoming truly educated and prepared for a lifetime of learning.

Following are the major areas of General Education, per Title 5, section 55063(b):

**Natural Sciences.** Courses in the natural sciences are those which examine the physical universe, its life forms and its natural phenomena. To satisfy the general education requirement in natural sciences, a course should help the student develop an appreciation and understanding of the scientific method through direct experience and encourage an understanding of the relationships between science and other human activities. This category would include introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, meteorology, oceanography, physics and other scientific disciplines.

Students who complete natural sciences general education courses will be able to:

1. Analyze basic concepts of biological and/or physical science to evaluate and debate the validity of scientific information.
2. Express an understanding of the relationships between science and other human activities.

**Social and Behavioral Sciences.** Courses in the social and behavioral sciences are those which focus on people as members of society. To satisfy the general education requirement in social and behavioral sciences, a course should help the student develop an awareness of the method of inquiry used by the social and behavioral sciences. It should stimulate critical thinking about the ways people act and have acted in response to their societies and how their actions in turn change their society. It should also promote appreciation of how societies and social subgroups operate. This category would include introductory or integrative survey courses in anthropology, economics, history, political science, psychology, sociology and related disciplines.

Students who complete social and behavioral sciences general education courses will be able to:

1. Analyze how people act and have acted to shape and respond to their societies and the natural environment.
2. Describe how societies and social subgroups and individuals operate in specific historical and contemporary contexts.
3. Compare and critique the principles, perspectives, and methods of inquiry and measurement appropriate to the particular discipline being studied.

**Humanities.** Courses in the humanities examine the philosophical, literary, aesthetic, and cultural expressions of humans. These courses develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them through artistic and cultural creation. They develop aesthetic understanding and, through study of traditional and changing cultural perspectives, foster better informed value judgments. These courses also offer students the opportunity to explore their creativity and imagination and to move consciously towards an awareness of their capability for artistic self-expression. This category will include art history, literature and film, philosophy and morality, comparative religion, the fine and performing arts and language. When we ask who we are, and what our lives ought to mean, we are using the humanities.

Students who complete humanities general education courses will be able to:

1. Describe how peoples of different times and cultures relate to their environments through individual artistic expression and shared cultural traditions.
2. Articulate an understanding of the relationships between the arts, the humanities and themselves.
3. Describe, explain, discuss, evaluate, compare and contrast theories to understand the nature of reasoning, reality and value.

**Language and Rationality.** Courses in language and rationality are those which develop for the student principles and applications of language that lead to logical thought, clear and precise expression, and critical evaluation of communication in any endeavor.

1. English Composition: Courses fulfilling this requirement include both expository and argumentative writing.
2. Communication and Analytical Thinking: Courses fulfilling these requirements include oral communication, mathematics, logic, statistics, computer language and programming, and related disciplines.

Students who complete language and rationality general education courses will be able to:

1. Write clear, logically organized essays using expository and argumentative modes and apply conventions of documentation when appropriate.
2. Apply logical reasoning to make decisions based on information.
3. Solve problems, explain conclusions, employ and evaluate evidence and inferences; and/or critique the thinking of self and others.
4. Construct, deliver, and comprehend appropriate and clear oral messages and exchanges in interpersonal, public, and professional contexts.

## Multiple Degrees

Effective with the fall 2017 semester, a student may earn more than one AA and/or AS degree from Fresno City College. A student may declare and pursue more than one degree simultaneously. The same AA and/or AS degree cannot be awarded from more than one college in the district. Please see a counselor for more information.

## Requirements for the Associate Degrees for Transfer

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

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

To view the most current list of Fresno City College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to <http://www.icangotocollege.com/>. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

## Requirements for AA and AS Degrees

1. Sixty (60) units with at least 2.0 ("C") grade point average in all courses applicable to the associate degree.
2. Residence requirements: A minimum of twelve (12) degree applicable units satisfactorily completed in residence at Fresno City College.
3. At least eighteen (18) units in a single discipline or related disciplines (major) or in an approved area of emphasis. Each course applied to this major requirement must be completed with a grade of "C" or better or a "P."
4. Competence in reading and writing, demonstrated by completion of English 1A or 1AH with a grade of 2.0, "C" or better. *(The course used to fulfill this requirement may also be used to fulfill area D, Part 1, below, of the general education requirement in language and rationality: composition.) Only one reading or writing course at one level below English 1A may be applied to degree requirements.*
5. Competence in mathematics, demonstrated by completion with a grade of 2.0, "C" or better in one of the following classes: Mathematics 3A, 4A, 4B, 5A, 5B, 6, 7, 10A, 10B, 11, 11H, 17, 21, 26, 42, 45, 102, or 103. (Satisfactory completion of a mathematics course at the level of Intermediate Algebra shall satisfy both the competency requirement and the coursework requirement set forth in Title 5, subdivision (b)(1)(D)(ii) of this section.)
6. Students must complete at least eighteen (18) units in general education coursework from one of the three following general education patterns: Option 1 – Fresno City College General Education - for students not intending to transfer to a four-year institution. Cannot be used for an Associate Degree for Transfer. Option 2 – CSU GE – California State University General Education - for students intending to transfer to the CSU or other four-year institution, with the exception of University of California. Option 3 – IGETC – Intersegmental General Education Transfer Curriculum – for students intending to transfer to a UC, CSU or other four-year institution. See a counselor for advisement on appropriate GE pattern.



Students should consult the catalog of the specific college or university which they plan to attend.

## Fresno City College General Education for the Associate Degree:

A minimum of 18 semester units in general education is required for graduation from Fresno City College.

Select courses from the following areas: A. Natural Sciences (3 units); B. Social and Behavioral Sciences (3 units); C. Humanities (3 units); D. Language and Rationality (minimum 6 units, one course each from D.1. = 3 units and D.2. = 3 units [or D.3. if mathematics competency has been met with a demonstration of satisfactory completion]); E. Lifetime Wellness (minimum 5 units, with at least one course from each E.1. and E.2.); F. Government and American Institutions (3 units); G. Communication (3 units). Coursework used to fulfill General Education may also be used to fulfill specific course and unit requirements of individual majors.

### A. Natural Sciences (3 units)

Anthropology 1, 1L  
Applied Technology 120  
Astronomy 10  
Biology 3/3H, 5, 7, 11A, 11B, 14, 20, 21A, 21B, 46, 55  
Chemistry 1A, 3A, 3B  
Geography 1, 7, 8  
Geology 1, 2, 4, 5, 9, 12  
Physics 2A, 2B, 4A  
Physical Science 11

### B. Social and Behavioral Sciences (3 units)

African-American Studies 1, 2, 4, 34, 41  
American Indian Studies 31, 32, 34  
American Studies 11  
Anthropology 1, 2/2H, 3, 4, 12, 28  
Asian-American Studies 1, 8, 10, 15, 25  
Business Administration 20  
Chicano-Latino Studies 11, 12, 13, 14, 24, 28, 29, 30  
Child Development 5, 39  
Criminology 5  
Economics 25, 40/40H, 50/50H  
Geography 2, 4A, 4B, 20  
Global Studies 1, 2  
History 1, 2, 3, 11, 12/12H, 15, 17, 18, 21, 22, 25, 29, 30, 34  
Human Services 10, 20  
Political Science 1, 5, 24, 25  
Psychology 5, 25, 36, 39  
Sociology 1A/1AH, 2, 10, 14, 31, 32  
Women's Studies 10, 22, 24, 41, 47

### C. Humanities (3 units)

African-American Studies 3, 8, 15, 17  
American Indian Studies 35

American Sign Language 1, 2, 3, 4, 5, 6, 7, 8  
Architecture 10, 11, 15A, 15B, 20, 30  
Armenian 1, 2  
Art 2, 3, 4, 5/5H, 6/6H, 7, 8, 9, 10, 11, 12A, 12B, 14, 15, 16, 17, 18, 19, 20, 21, 22B, 23, 25A, 28, 29, 31, 32A, 32B, 40, 52, 55, 70  
Asian American 8, 55  
Chicano-Latino Studies 17A, 18, 20, 21, 27B  
Chinese 1, 2  
Communication 12  
Dance 17A, 20A, 20B, 27B, 30  
English 1B, 12, 14, 15A, 15B, 15C, 15D, 17, 20, 36, 40, 42, 44A, 44B, 45, 46A, 46B, 47, 48A, 48B  
Film 1, 2A, 2B, 3, 5, 6, 7  
French 1, 2, 3  
German 1, 2  
Graphic Communications 39A, 40A  
Hmong 1, 2  
Humanities 10, 11, 42  
Japanese 1, 2  
Journalism 1, 16  
Linguistics 10/10H, 11  
Music 3, 5, 12, 13, 15, 16, 17, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 34, 35, 40, 41, 42A, 42B, 42C, 42D, 46, 48, 53, 92  
Philosophy 1A/1AH, 1B, 1C/1CH, 1D, 3A, 3B, 5  
Photography 5, 6, 15, 17, 18, 32  
Portuguese 1, 2  
Spanish 1, 2, 2NS, 3, 3NS, 4, 4NS, 5, 6, 7, 41, 42  
Theatre Arts 12, 23, 25, 27A, 27B, 28, 30, 31, 32, 35, 36, 38, 41, 42, 43, 44A, 44B, 46, 49  
Women's Studies 36

### D. Language and Rationality

(6 units: one course each from D.1. = 3 units and D.2. = 3 units [or D.3. if mathematics competency has been met with a demonstration of satisfactory completion])

#### 1. Composition

(The course used to fulfill this general education area requirement may also be used to satisfy degree requirement 4, competence in writing, above.)  
English 1A/1AH

#### 2. Analytical Thinking: Mathematics

Decision Science 21, 23  
Mathematics 3A, 4A, 4B, 5A, 5B, 6, 7, 10A, 10B, 11/11H, 17, 21, 26, 42, 45, 102, 103, or any advanced math class  
Psychology 42



**3. Analytical Thinking**

Applied Technology 10  
 Business Administration 10, 18, 30, 33  
 Communication 25  
 Computer Information Technology 60, 63, 65,  
 66, 69  
 Computer Science 40, 41  
 Criminology 13  
 Electrical Systems Technology 51  
 English 3/3H  
 Graphic Communications 15, 17, 20A, 20B,  
 22, 23, 30, 41, 51  
 Marketing 10  
 Philosophy 2/2H, 6  
 Political Science 13  
 Sociology 1B

**E. Lifetime Wellness**

*(5 units, with at least one course from each E.1. and E.2.)*

**1. PE &/or Dance (waived for Veterans, P.O.S.T. Basic Academy, or Basic Fire Academy Graduates)\***

Developmental Services 50, 51, 52, 53, 54, 55  
 Dance 8, 9, 10A, 10B, 12A, 12B, 13A, 14, 15, 16,  
 17A, 17B, 18, 20A, 20B, 21, 22, 27A, 27B, 28A,  
 28B, 31, 32  
 Physical Education 3, 4, 4B, 5, 6, 7, 8, 9, 12, 12B,  
 13, 13B, 14, 15A, 15B, 15C, 17, 27, 29B, 29C,  
 30B, 30C, 31B, 31C, 32B, 33B, 33C, 34B, 34C,  
 35B, 36B, 36C, 37B, 37C, 38B, 38C, 39B, 39C,  
 40B, 40C, 41B, 41C, 42B, 42C, 43B, 43C, 44B,  
 44C, 45, 46C, 70, 71, and 72

**2. Lifetime Skills**

Allied Health 1  
 Child Development 30, 38, 39  
 Counseling 53  
 Food and Nutrition 35, 40  
 Health Science 1  
 Human Services 10, 44  
 Psychology 2/2H, 25, 33, 38, 39  
 Sociology 5, 7, 10, 31, 32  
 Women's Studies 5, 7

*\*Exceptions will be considered for:*

- *Veterans, P.O.S.T. program candidates, Basic Fire Academy graduates, or*
- *Students who submit a physician's statement certifying that they are not physically able to participate in physical education classes.*

- o *Exemption forms are available at the Health Services office, Students Services Building, lower level.*
- o *Must be documented as permanent by student's physician.*
- o *Once verified, Health Services will forward the completed exemption form to Admissions and Records.*
- *Fresno City College will award 2 units of PE and 3 units of credit for the Fresno City College AA AS Degree in the Lifetime Wellness Area. Students planning to transfer to a CSU will earn 3 units toward CSU General Education Area E Lifelong Learning and Self Development. Additional credit may be awarded as a non-transferable elective credit after evaluation of transcripts.*

**F. Government and American Institutions (3 units)**

Political Science 2/2H or 110

**G. Communication (3 units)**

Communication 1, 2, 4, 8/8H, or 25

### Application for Associate Degree or Certificate of Achievement

A candidate for an associate in arts degree, associate in science degree or a certificate of achievement must file a graduation application for the degree or certificate. An application for graduation for a degree or certificate of achievement will be accepted when a student is within a year of potential graduation and/or completion. A student who needs a formal evaluation prior to the year of graduation/completion may appeal this policy by providing evidence of special program requirements. Application deadlines are listed in the academic calendar of this catalog. No student is a candidate for graduation until the application is completed. Graduation ceremonies for degree candidates are held at the end of the spring semester each year. Diplomas and certificates are mailed to successful candidates approximately sixty (60) working days after fulfilling graduation requirements.

Effective with the fall 2017 semester, a student may earn more than one certificate from Fresno City College. A student may declare and pursue more than one certificate simultaneously. The same certificate cannot be awarded from more than one college in the district. Please see a counselor for more information.



# TRANSFER INFORMATION AND REQUIREMENTS

## Preparation to Enter Four-year Colleges or Universities

Fresno City College provides the first two years of a four-year college or university program. The majority of Fresno City College students are enrolled in such transfer programs and may complete all or most of their general education and lower division major requirements before transferring. Students can transfer to a baccalaureate institution once they have completed 60 or more transferable units with the required GPA.

The requirements for transfer and the requirements for a certificate and/or associated degree program can be very different. With careful planning a student may be able to earn a certificate and/or associate degree as well as meet transfer requirements. Therefore, the importance of reaching a decision regarding one's objectives at the time of enrollment cannot be overemphasized. Also, there are differences in the transfer requirements of colleges and universities. Therefore, it is advisable for entering students to plan a program which meets the requirements of a particular college or university to which they wish to transfer. Students should consult the catalog of the specific college or university which they plan to attend. Counselors will assist in interpreting catalog statements and requirements and with developing a Student Educational Plan (SEP) upon request. Catalogs of many universities and colleges are available in the Fresno City College Counseling/Transfer Center. It is, however, wise for students to order their own personal copies directly from the college or university of their choice.

Careful selection of courses at Fresno City College will prepare a student for transfer with junior standing to a baccalaureate institution and at the same time enable the student to complete the requirements for the associate degree. Those Fresno City College courses which are accepted at other schools are not always exact equivalents of their courses but normally are accepted as meeting the same requirements.

In accordance with Executive Order No. 167 from the Chancellor's Office of the California State Universities, Fresno City College baccalaureate level courses are numbered 1 to 99. These courses are listed on page 49 of this

catalog. The courses so designated by Fresno City College shall be accepted by any campus of the State University for elective credit toward its baccalaureate degrees. Students can complete the general education requirements for all of the California State Universities by following the appropriate pattern which follows. Completion of the general education requirements will be certified on the Fresno City College final transcript upon the student's request.

Fresno City College courses that transfer to the University of California campuses are listed on page 48. Students who plan to transfer to one of the UC campuses should consult the latest catalog of the university of their choice to determine lower division requirements.

University of California breadth requirements for each separate campus and some major program sheets are available for student use in the Transfer Center.

## Articulation

Articulation is a process of developing formal written agreements that identify courses at one college that are accepted in lieu of specific courses at another college or that fulfill a specific statewide pattern of general education.

Fresno City College has developed numerous articulation agreements with California State University and University of California campuses. These agreements may be viewed at [www.assist.org](http://www.assist.org) or in the Fresno City College Transfer Center.

Articulation agreements have also been developed with some California private and out-of-state colleges and universities. These agreements are available in the Fresno City College Transfer Center as well. See a counselor for assistance.

## Articulation System Stimulating Inter-Institutional Student Transfer (ASSIST)

ASSIST is a single computerized database located at [www.assist.org](http://www.assist.org) that provides access to articulation agreements developed between California Community Colleges, the California State Universities (CSU), and the Universities of

California (UC). As articulation agreements are updated, so is the information maintained in ASSIST. See a counselor for assistance in how to use ASSIST.

- **CSU Transferable Courses**

These lists identify courses from a community college that transfer to any CSU campus for baccalaureate/transfer credit.

- **CSU GE-Breadth Certification Courses**

These are lists of courses from a community college that apply to the CSU GE-Breadth certification requirements.

- **CSU US History, Constitution, and American Ideals Courses**

These lists identify courses from a community college that satisfy the US history, Federal Constitution, and California state and local government degree requirements.

- **IGETC for UC and CSU**

These are lists of courses from a community college that apply to the Intersegmental General Education Transfer Curriculum (IGETC) requirements.

- **UC Transferable Courses**

These agreements list courses from community colleges that transfer to all University of California campuses.

## Agreements with Other Campuses— Campus Specific

- **By Major**

These agreements specify courses at a sending institution that fulfill lower-division major requirements at a receiving institution.

- **By Department**

These agreements identify courses at a sending institution that are acceptable in lieu of courses at a receiving institution. They display courses taught by the departments at a specified institution.

- **For General Education/Breadth**

These agreements indicate the courses at a sending institution that satisfy the general education or breadth requirements at a receiving institution. See a counselor for assistance on how to use ASSIST.

## Course Identification Numbering Systems (C-ID)

The Course Identification Numbering Systems (C-ID) is a statewide numbering system independent from the course numbers assigned by local California colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on

their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to [www.assist.org](http://www.assist.org) to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult with the ASSIST database at [www.assist.org](http://www.assist.org) for specific information on C-ID course designations. Counselors can always help students interpret or explain this information.

C-ID Number	Fresno City College Course
ACCT 110	Accounting 4A or 4AH, Financial Accounting
ACCT 120	Accounting 4B or 4BH, Managerial Accounting
AJ 110	Criminology 1, Introduction to Criminology
AJ 120	Criminology 6, Concepts of Criminal Law
AJ 122	Criminology 4, Principles and Practi- ces of the Justice System
AJ 124	Criminology 3, Legal Aspects of Evidence
AJ 140	Criminology 8, Criminal Investigation
AJ 150	Criminology 9, Crime Scene Investigation
AJ 160	Criminology 5, Community Relations
AJ 200	Criminology 20, Introduction to Corrections
AJ 220	Criminology 11, Juvenile Delinquency

C-ID Number	Fresno City College Course
ANTH 110	Anthropology 1, Biological Anthropology
ANTH 120	Anthropology 2 or 2H, Cultural Anthropology
ANTH 130	Anthropology 8, Language and Culture
ANTH 150	Anthropology 4, Introduction to Archaeology
ARTH 100	Art 2, Art Appreciation
ARTH 110	Art 5 or 5H, Art History Ancient to Medieval
ARTH 120	Art 6 or 6H, Art History Renaissance to Modern
ARTH 130	Art 55, Introduction to Asian Art
ARTH 145	Art 60 or Chicano-Latino Studies 22, Art of the Ancient Americas
ARTS 100	Art 3, Two-Dimensional Design
ARTS 101	Art 4, Three-Dimensional Design
ARTS 110	Art 7, Beginning Drawing
ARTS 200	Art 8, Beginning Figure Drawing and Anatomy
ARTS 205	Art 17, Intermediate Drawing
ARTS 210	Art 9, Beginning Painting: Oil/Acrylic
ARTS 250	Art 52, Introduction to Digital Art/New Media
ARTS 280	Art 12A, Craft Workshop: Living Traditions
BIOL 110B	Biology 20, Human Anatomy
BIOL 115S	Biology 21A + Biology 21B, Human Anatomy & Physiology
BIOL 120B	Biology 22, Human Physiology
BIOL 130S	Biology 4 + Biology 6, Principles of Zoology and Principles of Botany
BIOL 140	Biology 11B, Biology for Science Majors II
BIOL 190	Biology 11A, Biology for Science Majors I
BUS 110	Business Administration 10, Introduction to Business
BUS 120	Business Administration 18, Business and the Legal Environment

C-ID Number	Fresno City College Course
CDEV 100	Child Development 39 or Psychology 39, Child Growth and Development
CDEV 110	Child Development 30, Child, Family and Community
CHEM 101	Chemistry 3A, Introductory General Chemistry
CHEM 102	Chemistry 3B, Introductory Organic and Biological Chemistry
CHEM 110	Chemistry 1A, General Chemistry
CHEM 120S	Chemistry 1B + Chemistry 1A, General Chemistry and Qualitative Analysis and General Chemistry
CHEM 140	Natural Science 1A, Integrated Science: Physics and Chemistry
CHEM 150	Chemistry 28A + Chemistry 29A, Organic Chemistry I and Organic Chemistry Laboratory I
CHEM 160S	Chemistry 28A + Chemistry 29A + Chemistry 28B + Chemistry 29B, Organic Chemistry I and II
CMUS 130X	Music 8, Audio Engineering
COMM 110	Communication 1, Introduction to Public Speaking
COMM 120	Communication 25, Argumentation
COMM 130	Communication 2, Interpersonal Communication
COMM 140	Communication 8, Group Communication
COMM 160B	Communication 26, Intercollegiate Forensics Laboratory
COMM 190	Communication 4, Persuasion
COMP 112	Computer Science 1, Introduction to Programming Concepts and Methodologies
COMP 122	Computer Science 40, Programming Concepts and Methodology I
COMP 132	Computer Science 41, Programming Concepts and Methodology II
COMP 152	Computer Science 26, Discrete Mathematics for Computer Science

C-ID Number	Fresno City College Course
ECE 120	Child Development 1, Principles and Practices of Teaching Young Children
ECE 130	Child Development 3, Introduction to Curriculum
ECE 200	Child Development 20, Observation and Assessment
ECE 210	Child Development 37A, Early Childhood Practicum
ECE 220	Child Development 6, Health, Safety and Nutrition in Early Childhood Education
ECE 230	Child Development 15, Diversity and Culture in Early Childhood Education Programs
ECON 201	Economics 40 or 40H, Introduction to Microeconomics
ECON 202	Economics 50 or 50H, Introduction to Macroeconomics
EDUC 200	Education 30 + Education 19, Introduction to Teaching and Work Experience (Cooperative), Occupational
ENGL 100	English 1A or 1AH, Reading and Composition
ENGL 105	English 3 or English 3H, Critical Reading & Writing
ENGL 105	Philosophy 2 or 2H, Critical Reasoning and Analytic Writing
ENGL 120	English 1B, Introduction to the Study of Literature
ENGL 130	English 48A, Introduction to American Literature to 1865
ENGL 135	English 48B, Introduction to American Literature from 1865 to the Present
ENGL 140	English 44A, World Literature to the Renaissance
ENGL 145	English 44B, World Literature since the Renaissance
ENGL 160	English 46A, English Literature to 1800
ENGL 165	English 46B, English Literature from 1800 to the Present
ENGL 200	English 15A + English 15B, Creative Writing: Poetry and Creative Writing: Fiction

C-ID Number	Fresno City College Course
ENGR 110	Engineering 10, Introduction to Engineering
ENGR 130	Engineering 8, Statics
ENGR 150	Engineering 2, Graphics
ENGR 180	Engineering 1A, Elementary Plane Surveying 1
ENGR 220	Engineering 5, Programming and Problem Solving in MATLAB
ENGR 260	Engineering 6, Circuits with Lab
ENGR 260L	Engineering 6, Circuits with Lab
FIRE 100X	Fire Technology 1, Fire Protection Organization
FIRE 110X	Fire Technology 2, Fire Prevention Technology
FIRE 120X	Fire Technology 3, Fire Protection Equipment and Systems
FIRE 130X	Fire Technology 4, Building Construction for Fire Protection
FIRE 140X	Fire Technology 5, Fire Behavior and Combustion
GEOG 110	Geography 1, Physical Geography
GEOG 120	Geography 2, Cultural Geography
GEOG 125	Geography 4A + Geography 4B, World Geography and World Geography
GEOG 130	Geography 8, Physical Geography: Weather and Climate
GEOG 140	Geography 20, Geography of California
GEOG 160	Geography 30, Regional Field Studies
GEOL 101	Geology 1, Physical Geology
GEOL 110	Geology 2, Historical Geology
GEOL 110L	Geology 2L, Historical Geology Lab
GEOL 121	Geology 9, Introduction to Earth Science
GEOL 200	Geology 4, Geology of California
HIST 130	History 11, History of the United States to 1877
HIST 140	History 12 or 12H, History of the United States since 1877
HIST 150	History 20, World History I, to 1600
HIST 160	History 23, World History II, since 1500

C-ID Number	Fresno City College Course
HIST 170	History 1, Western Civilization to 1648
HIST 180	History 2, Western Civilization since 1648
HIT 100X	Health Information Technology 1, Introduction to Health Information Management
HIT 102X	Health Information Technology 2, Legal Aspects of Health Information
HIT 103X	Health Information Technology 10, Medical Terminology
HIT 104X	Health Information Technology 12, Health Information in Alternative Settings
HIT 105X	Health Information Technology 4, Disease Process
HIT 206X	Health Information Technology 9, Hospital and Health Statistics
HIT 208X	Health Information Technology 14, HIM Technology and Systems
HIT 210X	Health Information Technology 8, Health Information Management and Supervision
ITIS 120	Computer Information Technology 15, Computer Concepts
JOUR 100	Journalism 1, Introduction to Mass Communication
JOUR 110	Journalism 3, Newswriting
JOUR 120	Journalism 14, Multimedia Reporting
JOUR 130	Journalism 4, Writing for the College Newspaper
JOUR 130	Journalism 11A, Beginning Media Writing Practicum
JOUR 130	Journalism 11C, Advanced Media Writing Practicum
JOUR 130	Journalism 11D, Editorial Leadership
JOUR 131	Journalism 11B, Intermediate Media Writing Practicum
JOUR 131	Journalism 11C, Advanced Media Writing Practicum
JOUR 131	Journalism 11D, Editorial Leadership

C-ID Number	Fresno City College Course
JOUR 210	Journalism 13, Advanced Reporting and Writing
KIN 100	Physical Education 62, Introduction to Kinesiology
KIN 101	Health Science 2, First Aid and Safety
LPPS 110	American Studies 11, Law and Democracy
MATH 110	Decision Science 23, Business Statistics
MATH 110	Mathematics 11 or 11H, Elementary Statistics
MATH 110	Mathematics 42 or Psychology 42, Statistics for the Behavioral Sciences
MATH 120	Mathematics 10A, Structure and Concepts in Mathematics
MATH 130	Decision Science 21, Finite Mathematics
MATH 130	Mathematics 21, Finite Mathematics
MATH 151	Mathematics 4B, Pre-Calculus
MATH 160	Computer Science 26, Discrete Mathematics for Computer Science
MATH 210	Mathematics 5A, Mathematical Analysis I
MATH 220	Mathematics 5B, Mathematical Analysis II
MATH 230	Mathematics 6, Mathematical Analysis III
MATH 240	Mathematics 7, Introduction to Differential Equations
MATH 250	Mathematics 26, Elementary Linear Algebra
MATH 851	Mathematics 4A, Trigonometry
MATH 900S	Mathematics 5A and 5B, Mathematical Analysis I and Mathematical Analysis II
MUS 100	Music 12, Music Appreciation
MUS 110	Music 3, Music Fundamentals
MUS 120	Music 1A, Music Theory I
MUS 120	Music 1AE, Music Theory I-Extra
MUS 125	Music 7A, Ear Training I
MUS 130	Music 1B, Music Theory II
MUS 135	Music 7B, Ear Training: Level II
MUS 140	Music 2A, Music Theory III

C-ID Number	Fresno City College Course
MUS 145	Music 7C, Ear Training: Level III
MUS 150	Music, 2B, Music Theory IV
MUS 155	Music 7D, Ear Training: Level IV
MUS 160	Music 22, Intermediate/Advanced Piano
MUS 160	Music 26, Intermediate/Advance Voice
MUS 160	Music 29, Intermediate/Advanced Guitar
MUS 160	Music 42A, Intermediate/Advanced Brass (Brass Choir)
MUS 160	Music 42B, Intermediate/Advanced Woodwinds (Woodwind Choir)
MUS 160	Music 42C, Intermediate/Advance Strings (String Orchestra)
MUS 160	Music 42D, Intermediate/Advanced Percussion (Percussion Ensemble)
MUS 180	Music 30, College Choir
MUS 180	Music 34, Fresno Chorale
MUS 180	Music 35, City Singers
MUS 180	Music 39A, Baroque/Classical Opera
MUS 180	Music 39B, Romantic and Modern Opera
MUS 180	Music 40, Concert Band
MUS 180	Music 41, Jazz Ensemble
MUS 180	Music 46, Symphony Orchestra
MUS 180	Music 47A, Jazz Combo A
MUS 180	Music 47B, Jazz Combo B
MUS 180	Music 47C, Jazz Combo C
MUS 180	Music 47D, Jazz Combo D
MUS 180	Music 48, Latin Jazz Ensemble
MUS 180	Music 53, Latin Jazz Workshop
MUS 180	Music 54, Afro-Latin Ensemble
MUS 180	Music 55, Afro-Caribbean Ensemble
MUS 180	Music 60, Symphonic Choir
MUS 180	Music 68, Symphonic Band
MUS 180	Music 72, Jazz Composer's Orchestra
MUS 180	Music 76, College Philharmonic Orchestra
MUS 180	Music 92, Vocal Jazz Workshop
NUTR 110	Food and Nutrition 40, Nutrition
NUTR 120	Food and Nutrition 1, Principles of Food Preparation

C-ID Number	Fresno City College Course
PHIL 100	Philosophy 1A or 1AH, Theories of Knowledge and Reality
PHIL 120	Philosophy 1C or 1CH, Ethics
PHIL 130	Philosophy 3A, Ancient Philosophy
PHIL 140	Philosophy 3B, Modern Philosophy
PHIL 210	Philosophy 6, Introduction to Logic
PHS 100	Health Science 1, Contemporary Health Issues
PHS 101	Allied Health 1, Introduction to Public Health
PHS 102	Allied Health 1, Introduction to Public Health
PHYS 100S	Physics 2A and 2B, General Physics 1 and General Physics 2
PHYS 105	Physics 2A, General Physics 1
PHYS 110	Physics 2B, General Physics 2
PHYS 140	Natural Science 1A, Integrated Science: Physics and Chemistry
PHYS 200S	Physics 4A + Physics 4B + Physics 4C, Physics for Scientists and Engineers
PHYS 205	Physics 4A, Physics for Scientists and Engineers
PHYS 210	Physics 4B, Physics for Scientists and Engineers
PHYS 215	Physics 4C, Physics for Scientists and Engineers
POLS 110	Political Science 2 or 2H, American Government
POLS 120	Political Science 3, Introduction to Political Theory and Thought
POLS 130	Political Science 5, Comparative Government
POLS 140	Political Science 24, International Relations
POLS 150	Political Science 1, Modern Politics
PSY 110	Psychology 2 or 2H, General Psychology
PSY 115	Psychology 33, Personal and Social Adjustment
PSY 120	Psychology 16, Abnormal Psychology
PSY 130	Psychology 25, Human Sexuality



C-ID Number	Fresno City College Course
PSY 150	Psychology 36, Biological Psychology
PSY 170	Psychology 5, Social Psychology
PSY 180	Psychology 38 or Child Development 38, Lifespan Development
PSY 200	Psychology 45, Introduction to Research Methods in Psychology
SJS 110	American Studies 10, American Pluralism: A Search for Common Ground in a Multicultural Society
SJS 110	American Studies 11, Law and Democracy
SJS 120	Women's Studies 10, Changing Roles of Women
SOCI 110	Sociology 1A or 1AH, Introduction to Sociology
SOCI 115	Sociology 1B, Global Social Problems
SOCI 130	Sociology 32, Introduction to Marriage and Family
SOCI 150	Sociology 2, American Minority Groups
SPAN 100	Spanish 1, Beginning Spanish
SPAN 110	Spanish 2, High-Beginning Spanish
SPAN 200	Spanish 3, Intermediate Spanish
SPAN 210	Spanish 4, High-Intermediate Spanish
SPAN 220	Spanish 3NS, Intermediate Spanish for Spanish Speakers
SPAN 230	Spanish 4NS, High-Intermediate Spanish for Spanish Speakers
THTR 111	Theatre Arts 30, Theatre Appreciation
THTR 112	Theatre Arts 30, Theatre Appreciation
THTR 113	Theatre Arts 31, Theatre History and Dramatic Literature I
THTR 114	Theatre Arts 38, Script Analysis
THTR 151	Theatre Arts 41, Beginning Acting
THTR 151	Theatre Arts 42, Beginning Acting for Theatre Majors
THTR 152	Theatre Arts 43, Intermediate Acting
THTR 171	Theatre Arts 25, Stagecraft
THTR 173	Theatre Arts 27B, Introduction to Lighting Design

C-ID Number	Fresno City College Course
THTR 174	Theatre Arts 36, Costume Design
THTR 175	Theatre Arts 28, Introduction to Stage Makeup
THTR 191	Theatre Arts 40, Performance Practicum
THTR 192	Theatre Arts 23, Technical Theatre Practicum

## Transfer to California State University (CSU)

### Transfer Requirements to California State University (CSU)

For students who plan to transfer and complete a bachelor's degree, Fresno City College offers the first two years of most baccalaureate level (four-year) degree programs. Each baccalaureate level institution has a basic pattern of lower-division general education and specific major requirements which may be fulfilled at Fresno City College. In addition, students may make up any high school grade or subject deficiencies which are required for entrance to baccalaureate level colleges or universities.

Students should acquaint themselves with the current catalog of the college to which they plan to transfer. A library of current college and university catalogs and internet access to college catalogs and websites are available in the Fresno City College Transfer Center. It is also recommended that students work closely with their counselor in order to fulfill requirements for the college of their choice. However, the final responsibility for the selection of proper transfer, major, and general education courses rests with the student.

### California State University (CSU) Admission

Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first time freshmen and must meet freshmen admission requirements.

Otherwise, students who have completed college units are considered transfer students.

Students who have completed 59 or fewer CSU transferable semester college units at the time of transfer are considered lower division transfer students.

Students who have completed 60 or more CSU transferable semester college units at the time of transfer are considered upper division transfer students.



## Lower Division Transfer Students

Students are eligible for admission with fewer than 60 CSU transferable semester units (90 quarter units) if the student:

- Has a college grade point average of 2.0 or better in all transferable college units attempted.
- Is in good standing at the last college or university attended, i.e., you are eligible to re-enroll.
- Meets the admission requirements for a first-time freshman or have successfully completed necessary courses to make up the deficiencies you had in high school if you did not complete the 15-unit pattern of college preparatory subjects.
- Meets the eligibility index required of a freshman.

Some campuses may require lower-division transfer students to have completed English composition and general education mathematics prior to transfer. Contact your campus of choice to determine whether there are admission limits on the number of lower-division transfer students.

## Upper Division Transfer Students

Students are eligible for admission with 60 or more CSU transferable semester units (90 quarter units) if the student:

- Has a college grade point average of 2.0 or better (2.4 for non-California residents) in all transferable college units attempted.
- Is in good standing at the last college or university attended, i.e., is eligible to re-enroll.
- Has completed or will complete prior to transfer at least 30 semester units (45 quarter units) of courses equivalent to CSU general education requirements with a grade of "C" or better. The 30 units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking) and at least one course of at least 3 semester units (4 quarter units) required in college-level mathematics.

## General Education Requirements For California State University Certification (CSU-GE)

The CSU General Education-Breadth program allows California community college transfer students to fulfill lower-division general education requirements for any CSU campus prior to transfer. This curriculum provides an alternative to IGETC requirements and to the campus specific university GE-Breadth requirements. It is important to note that CSU GE-Breadth certification is not an admission requirement, nor does completion guarantee admission to the campus or program of choice.

Up to 39 of the 48 GE-Breadth units required can be transferred from and certified by a California community college. Students who are certified with 39 semester units of lower division GE-Breadth units cannot be held to additional lower division GE courses at the CSU campus. Upon enrollment at CSU, all transfer students will be required to complete a minimum of 9 semester units of upper division general education. Students without certification may be held to the general education pattern developed for CSU students which may vary greatly from the community college CSU-GE Breadth pattern.

## Fresno City College CSU General Education – Breadth 2021-2022

### *Area A: English Language Communication and Critical Thinking*

*Nine semester units minimum with one course from A1, A2, and A3 ("C" or better grade required in A1, A2, and A3).*

- **Area A1, Oral Communication**  
Communication 1, 2, 4, 8/8H
- **Area A2, Written Communication**  
English 1A/1AH
- **Area A3, Critical Thinking**  
Communication 25  
Criminology 13  
English 3/3H  
Philosophy 2/2H, 6  
Political Science 13

### *Area B: Scientific Inquiry and Quantitative Reasoning*

*Nine semester units minimum with at least one course in B1, B2, and B4 ("C" or better grade required in B4.) One course in B1 or B2 must contain a lab component indicated by (L) or be accompanied by a course in B3.*

- **Area B1, Physical Science**  
Astronomy 10(L)  
Chemistry 1A(L), 1B(L), 3A(L), 3B(L), 8A, 28A, 28B  
Geography 1(L), 7(L), 8(L)  
Geology 1(L), 2, 4, 5, 7, 8, 12  
Natural Science 1A(L)  
Physical Science 11  
Physics 2A(L), 2B(L), 4A(L), 4B(L), 4C(L)
- **Area B2, Life Science**  
Anthropology 1  
Biology 3(L), 4(L), 5(L), 6(L), 7(L), 11A(L), 11B(L), 14, 20(L), 21A(L), 21B(L), 22(L), 31(L), 55

- **Area B3, Laboratory Activity**

Anthropology 1L  
Chemistry 1A, 3A, 29A, 29B  
Geography 1  
Geology 2L  
Physics 4A, 4B, 4C

- **Area B4, Mathematics/Quantitative Reasoning**

Computer Science 26  
Decision Science 21, 23  
Mathematics 3A, 4A, 4B, 5A, 5B, 6, 10A, 10B, 11/11H, 17, 21, 26, 42, 45  
Psychology 42

*Area C: Arts and Humanities*

*Nine semester units minimum with at least one course each from C1 and C2.*

- **Area C1, Arts**

African-American Studies 3, 8, 15  
American Indian Studies 35  
Architecture 15A, 15B  
Art 2, 3, 5/5H, 6/6H, 7, 9, 10, 11, 12A, 12B, 14, 15, 17, 55, 60, 70  
Asian-American Studies 55  
Chicano-Latino Studies +17A, 20, 22, +27B  
Communication 12  
Dance +17A, +27B, 30  
Film 1, 2A, 2B, 6  
Music 3, 12, 13, 15, 16, 17  
Photography 5  
Theatre Arts 12, 30, 31, 44A  
*+Only one course can be used to satisfy this area.*

- **Area C2, Humanities**

African-American Studies 17  
American Sign Language 1, 2, 3, 4, 5, 7, 8  
Armenian 1, 2  
Asian-American Studies 8  
Chicano-Latino Studies 21  
Chinese 1, 2  
English 1B, 12, 14, 15A, 15B, 17, 36, 40, 42, 44A, 44B, 45, 46A, 46B, 47, 48A, 48B  
Film 1, 2A, 2B, 3  
French 1, 2, 3  
German 1, 2  
History 1, 2  
Hmong 1, 2  
Humanities 10, 11, 42  
Japanese 1, 2  
Linguistics 10/10H  
Philosophy 1A/1AH, 1B, 1C/1CH, 1D, 3A, 3B, 5  
Political Science 3  
Portuguese 1, 2

Spanish 1, 2, 2NS, 3, 3NS, 4, 4NS, 5, 6, 7, 9, 41, 42  
Theatre Arts 32  
Women's Studies 36

*Area D: Social Sciences*

*Nine semester units minimum from at least two disciplines.*

African-American Studies 1, 4, 34  
American Indian Studies 31, 34  
American Studies 10, 11  
Anthropology 2/2H, 3, 4, 8, 12  
Asian-American Studies 1, 10, 15, 25  
Business Administration 20  
Chicano-Latino Studies 11, 12, 29, 30  
Child Development 30, 38, 39  
Economics 25, 40/40H, 50/50H  
Geography 2, 4A, 4B, 20  
Global Studies 1, 2  
History 1, 2, 3, 11, 12/12H, 15, 17, 18, 20, 21, 22, 23, 25, 29, 30, 34  
Human Services 10  
Journalism 1, 16  
Political Science 1, 2/2H, 3, 5, 24  
Psychology 2/2H, 38, 39  
Sociology 1A/1AH, 1B, 2, 10, 32  
Women's Studies 10, 22, 47

*Area E: Lifelong Learning and Self-Development*

*Three semester units minimum. \*Three units of physical education alone is insufficient to fulfill AREA E.*

Child Development 38, 39  
Food and Nutrition 35, 40  
Health Science 1  
\*Physical Education 3, 4, 4B, 5, 6, 7, 8, 9, 12, 12B, 13, 13B, 14, 15A, 15B, 15C, 17, 27, 29B, 29C, 30B, 30C, 31B, 31C, 32B, 33B, 33C, 34B, 34C, 35B, 36B, 36C, 37B, 37C, 38B, 38C, 39B, 39C, 40B, 40C, 41B, 41C, 42B, 42C, 43B, 43C, 44B, 44C, 45, 46B, 46C, 70, 71, 72

Psychology 2/2H, 25, 33, 38, 39

*Total Minimum Units Required for Certification* 39

*Notes: Courses listed in more than one area or sub-area may only be used one time.*

*The same course, e.g. CLS/DANCE 27B, can be counted only once.*

*Some CSU campuses have restrictions on when courses in AREAS A and B4 must be completed prior to transfer.*

*Additional courses may be added to the Fresno City College CSU GE-Breadth. An updated CSU General Education Sheet may be obtained from the Counseling Center, the Transfer Center, the Fresno City College Website, or [www.assist.org](http://www.assist.org).*

Students transferring into Engineering and Liberal Studies majors may be required to complete specific courses in each area of CSU GE-Breadth or they may be waived/exempted from specific areas. See a counselor for assistance.

Students who have credit from other colleges should meet with a counselor regarding General Education Certification.

A maximum of 70 semester units earned at community college may be transferred to CSU. Course work completed above the 70 units may be used to satisfy GE and major preparation even though the units will not count toward the bachelor's degree.

## U.S. History, Constitution, and American Ideals

To graduate from a California State University a student must complete, with a "D" or better grades, a combination of courses which are identified as meeting the U. S. History, Constitution, and American Ideals requirements. Courses at Fresno City College which meet this requirement are: one course from History 11 or 12 combined with one course from Political Science 2/2H or 6. These courses may also be used simultaneously to satisfy course requirements on the CSU GE-Breadth pattern. (See page 47).

## California State University Transfer Course List (CSU)

The following courses are baccalaureate-level courses transferable to all California State University campuses. Their acceptance in meeting general education or major requirements will vary among the campuses. Consult the appropriate catalog, major sheet or with a counselor for specific information.

*Note: A number of courses are cross-referenced—the same course is listed in more than one area, department or discipline—usually with the same course number. Credit can be earned only once for cross-referenced courses. See the individual course listings in the "Course Descriptions" section of the catalog.*

**Accounting** 4A, 4B, 19, 51, 52, 53, 54A, 56, 57, 61, 70, 73

**Aerospace Studies** 1A, 1B, 2A, 2B, 3

**African-American Studies** 1, 2, 3, 4, 5, 6, 8, 15, 17, 34, 41

**Allied Health** 1, 2, 3, 19, 20, 21

**American Indian Studies** 31, 32, 34, 35

**American Sign Language** 1, 2, 3, 4, 5, 6, 7, 8, 20, 21, 22

**American Studies** 10, 11

**Anthropology** 1, 1L, 2/2H, 3, 4, 8, 12, 13, 15, 16A, 16B, 24, 28, 30

**Applied Technology** 10, 19, 21, 40

**Architecture** 10, 11, 12, 14, 15A, 15B, 20, 21, 22, 24, 30, 31, 32, 34, 40, 41A, 42

**Armenian** 1, 2

**Art** 2, 3, 4, 5/5H, 6/6H, 7, 8, 9, 10, 11, 12A, 12B, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22B, 23, 24A, 24B, 24C, 24D, 25, 25A, 27, 28, 29, 31, 32A, 32B, 36A, 38A, 40, 52, 55, 60, 70, 80

**Asian-American Studies** 1, 8, 10, 15, 25, 55

**Astronomy** 10

**Automotive Technology** 9, 10, 19, 51, 52, 53, 54, 55, 56, 57, 58, 58A, 58B, 58C, 61, 62, 63, 64, 65, 66, 67, 68, 68A, 68B, 68C

**Automotive Technology – General Motors ASEP**

51, 52, 53, 54, 55, 56, 57

**Biology** 3, 4, 5, 6, 7, 11A, 11B, 14, 20,

21A, 21B, 22, 31, 46, 47, 55

**Business Administration** 5, 10, 18, 19, 20, 24,

25, 27, 28, 30, 31, 33, 34, 35, 38, 40, 43, 49, 50, 51, 52

**Business & Technology** 1, 2, 5, 6, 7, 9, 10,

18, 19, 23, 24, 25, 26, 28, 29, 31, 33, 43

**Chemistry** 1A, 1B, 3A, 3B, 8A, 18L, 20, 28A, 28B, 29A, 29B, 99

**Chicano-Latino Studies** 11, 12, 13, 14, 17A, 17B, 18, 20, 21, 22, 24, 27A, 27B, 28, 29, 30, 33

**Child Development** 1, 3, 5, 6, 9, 10, 11, 12,

15, 16, 17A, 17B, 19, 20, 30, 37A, 37B, 38, 39,

40A, 40B, 42, 43, 45, 47, 48, 53, 60

**Chinese** 1, 2

**Communication** 1, 2, 4, 8/8H, 10, 12, 20, 25, 26

**Computer Aided Drafting and Design** 14,

16, 22, 24, 26A, 28, 32, 36A, 42

**Computer Aided Manufacturing** 5, 10, 15, 20, 26, 31

**Computer Information Technology** 12, 15, 19,

21, 23, 28, 31, 40, 45, 48A, 48B, 49, 50, 54A, 54B,

55, 57, 58B, 58C, 58D, 58E, 58F, 59, 60, 63, 65, 66,

69, 70, 80, 82, 84, 85, 90, 93, 94, 95, 97, 99

**Computer Science** 1, 26, 40, 41, 45

**Construction** 14, 18, 50, 50A, 50B, 51, 52A,

52B, 53, 55, 56A, 56AL, 56B, 56BL, 60, 65

**Counseling** 43, 48, 53, 54

**Criminology** 1, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 15, 16,

18, 19, 20, 23, 24, 25, 28, 36

**Dance** 8, 8B, 9, 10A, 10B, 11, 12A, 12B, 13A, 13B,

14, 15, 16, 17A, 17B, 18, 20A, 20B, 21, 22, 25,

26, 27A, 27B, 28A, 28B, 30, 31, 32

**Decision Science** 10, 21, 23, 25, 40, 44, 55

**Dental Assisting** 1, 2, 3, 3A, 19

**Dental Hygiene** 1A, 1B, 1C, 1D, 2, 3A, 4, 5A, 5B,

5C, 6A, 6B, 7A, 7B, 8A, 8B, 9, 10, 11, 12, 13, 14

**Developmental Services** 50, 51, 52, 53, 54, 55

**Drafting** 12

**Economics** 25, 40/40H, 50/50H

- Education** 6, 7, 19, 19X, 30
- Electrical Systems Technology** 50, 51, 52, 53, 54, 55A, 55B, 55C, 56A, 56B, 56C, 57A, 57B, 57C, 58, 59, 60, 61, 62, 80, 81, 82A, 82B, 83A, 83B, 84A, 96A, 96B, 96C, 96D
- Engineering** 1A, 2, 4, 4L, 5, 6, 8, 10, 11, 12
- English** 1A/1AH, 1B, 3/3H, 12, 14, 15A, 15B, 15C, 15D, 17, 20, 36, 40, 42, 44A, 44B, 45, 46A, 46B, 47, 48A, 48B
- Fashion Merchandising** 19, 26, 27, 28
- Film** 1, 2A, 2B, 3, 5, 6, 7
- Fire Technology** 1, 2, 3, 4, 5, 8, 9, 14, 19, 22A, 22B, 23, 24, 25, 26, 27, 29, 30E, 50L, 51A, 51B, 51C
- Food and Nutrition** 1, 2, 35, 40, 41, 42, 43, 45
- Food Service Management** 11, 15, 19, 25, 35, 38
- French** 1, 2, 3
- Geography** 1, 2, 4A, 4B, 7, 8, 10, 12, 18, 20, 30
- Geology** 1/H, 2, 2L, 3, 4, 5, 9, 12
- German** 1, 2
- Global Studies** 1, 2
- Graphic Communications** 15, 17, 20A, 20B, 22, 23, 24A, 27, 28, 30, 31, 32, 34, 38, 39A, 40A, 41, 47, 51, 53, 55
- Health Information Technology** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16
- Health Science** 1, 2, 3
- Heating, Ventilation & Air Conditioning** 50, 51, 52, 53, 54
- History** 1, 2, 3, 11, 12/12H, 15, 17, 18, 20, 21, 22, 23, 25, 29, 30, 34
- Hmong** 1, 2
- Honors** 1A, 1C, 1D, 1E, 1F, 1G
- Human Services** 10, 11, 18, 19A, 19B, 20, 24, 25, 30, 35, 40, 42, 43, 44, 60
- Humanities** 10, 11, 42
- Individual Study** 49
- Japanese** 1, 2
- Journalism** 1, 2, 3, 4, 6, 11A, 11B, 11C, 11D, 12, 13, 14, 15, 16, 19
- Learning Assistance** 1, 2A, 2B, 3
- Library Skills** 1
- Library Technology** 51, 52A, 52B, 54, 55, 56, 57, 61, 62, 63
- Linguistics** 10/10H, 11
- Marketing** 1, 10, 11, 12, 14, 17, 19, 21, 22
- Mathematics** 3A, 4A, 4B, 5A, 5B, 6, 7, 10A, 10B, 11/11H, 17, 21, 26, 42, 45
- Medical Assisting** 1, 2, 4, 5, 6A, 6B, 19
- Military Science** 1, 2, 11, 12, 50, 55, 60, 65
- Music** 1A, 1AE, 1B, 2A, 2B, 3, 4, 5, 6, 7A, 7B, 7C, 7D, 8, 8B, 8C, 9, 10A, 10B, 12, 13, 15, 16, 17, 18, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 34, 35, 39A, 39B, 39C, 39D, 40, 41, 42A, 42B, 42C, 42D, 46, 47A, 47B, 47C, 47D, 48, 49, 53, 54, 55, 57, 59, 60, 67, 68, 72, 76, 78, 92, 93
- Natural Science** 1A
- Nursing** 19, 31, 32, 32A, 33, 35A, 35B, 41, 42, 42A, 45, 46, 51, 52, 52A, 53, 55, 56, 61, 62, 62A, 65, 66
- Paralegal** 1, 2A, 2B, 3, 4, 5, 6A, 6B, 7, 8, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20
- Philosophy** 1A/1AH, 1B, 1C/1CH, 1D, 2/2H, 3A, 3B, 5, 6
- Photography** 5, 6, 12, 14, 15, 17, 18, 23, 26, 32, 45, 49, 52, 57, 67, 77
- Physical Education** 3, 4, 4B, 5, 6, 7, 8, 9, 12, 12B, 13, 13B, 14, 15A, 15B, 15C, 17, 18A, 18B, 20, 24, 26, 27, 28, 29B, 29C, 30B, 30C, 31B, 31C, 32B, 33B, 33C, 34B, 34C, 35B, 36B, 36C, 37B, 37C, 38B, 38C, 39B, 39C, 40B, 40C, 41B, 41C, 42B, 42C, 43B, 43C, 44B, 44C, 45, 46B, 46C, 62, 70, 71, 72
- Physical Science** 11
- Physics** 2A, 2B, 4A, 4B, 4C
- Political Science** 1, 2/2H, 3, 5, 6, 13, 24, 25
- Portuguese** 1, 2
- Psychology** 2, 2H, 5, 12, 16, 18, 25, 33, 36, 38, 39, 42, 45
- Radiologic Technology** 1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D, 3, 4A, 4B, 4C, 5A, 5B, 5C, 6
- Real Estate** 40, 41
- Recreation** 19, 20, 21, 23
- Respiratory Care** 15, 16, 16C, 17, 18, 20, 21, 21B, 21C, 22, 23, 23B, 24, 24B, 25, 25B, 26, 27
- Sociology** 1A/1AH, 1B, 2, 5, 7, 10, 14, 31, 32
- Spanish** 1, 2, 2NS, 3, 3NS, 4, 4NS, 5, 6, 7, 8, 9, 41, 42
- Special Studies** 47
- Theatre Arts** 12, 15C, 23, 25, 27A, 27B, 28, 29A, 29B, 30, 31, 32, 35, 36, 38, 39A, 39B, 40, 41, 42, 43, 44A, 44B, 45, 46, 48A, 48B, 49
- Welding** 1, 2A, 2B, 3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 6C, 10, 56, 83A
- Women's Studies** 5, 7, 10, 22, 24, 25, 36, 41, 43, 44, 47
- Work Experience** 19

*Note: No more than 8 units of work experience, including both vocational and general, are considered appropriate for transfer.*

## Transfer to University of California (UC)

### Transfer Requirements of the University of California (UC)

Students ineligible for admission to the University of California at the time of high school graduation because of low grades or a combination of low grades and a lack of required subjects must meet three criteria: (1) establishment of an overall GPA of 2.4, (2) completion of 60 transfer semester units and (3) presentation of appropriate college courses completed with a “C” grade or better in the “A-F” subjects not completed in high schools. Up to two units of credit may be waived if (1) and (2) are satisfied.

An alternative to the criteria in (3) above may be used. A student may present one college course in mathematics, one in English, and one in either U.S. History, a laboratory science, or a foreign language. These courses must be passed with a grade of “C” or better. Courses other than mathematics must be transferable to the university. To meet the mathematics eligibility requirements, the student should have completed three years of high school mathematics through intermediate algebra or complete a college course with a prerequisite of intermediate algebra.

### UC Transfer Admission Guarantee (Guaranteed Admission)

Fresno City College participates in guaranteed admission agreement programs with UC Davis, UC Irvine, UC Merced, UC Riverside, UC San Diego, UC Santa Barbara, and UC Santa Cruz. These programs are designed for students who have completed 30 University of California units with a minimum grade point average of 2.8 and all will complete 60 University of California units. See a counselor or the Transfer Center for Transfer Admission Guarantee information.

## University of California Transfer Course List (UC)

Fresno City College courses that are acceptable for transfer credit at the University of California are as follow.

**Accounting** 4A, 4B

**Aerospace Studies** \*1A, \*1B, \*2A, \*2B, \*3

*\*Any or all of these courses and Military Science 1, 2, 11, 12 combined: maximum credit, 8 units.*

**African-American Studies** 1, 2, 3, 4, 5, 6, 8, 15, 17, 34, 41

**Allied Health** 1, 2

**American Indian Studies** 31, 32, 34, 35

**American Sign Language** 1, 2, 3, 4, 6, 7, 8, 21, 22

**American Studies** 10, 11

**Anthropology** 1, 1L, 2/2H, 3, \*\*4, 8, 12, 13, 15, \*16A, \*16B, 24, 28

*\*16A, 16B and 24 combined: maximum credit, 2 units.*

*\*\*No credit for 4 if taken after 3.*

**Applied Technology** 10

**Architecture** 10, 11, 15A, 15B, 20, 30

**Armenian** 1, 2

**Art** 2, 3, 4, 5/5H, 6/6H, 7, 8, 9, 10, 11, 13, 14, 15,

16, 17, 18, 19, 20, 21, 23, 24A, 24B, 24C, 24D,

25, 25A, 27, 28, 29, 31, 36A, 38A, 40, 52, 55, 60, 70

**Asian-American Studies** 1, 8, 10, 15, 25, 55

**Astronomy** 10

**Biology** \*3, 4, 5, 6, 7, 11A, 11B, 14, 20, 21A,

21B, 22, 31, \*\*55

*\*No credit for 3 if taken after 11A.*

*\*\*No credit for 55 if taken after 20 or 21A.*

**Business Administration** 10, 18, 20, 30

**Chemistry** \*1A, 1B, \*3A, 3B, 8A, 18L, 20, 28A,

28B, 29A, 29B

*\*1A and 3A combined: maximum credit, 1 course.*

**Chicano-Latino Studies** 11, 12, 13, 14, 17A,

17B, 18, 20, 21, 22, 24, 27A, 27B, 28, 29, 30, 33

**Child Development** 30, 38, 39

**Chinese** 1, 2

**Communication** 1, 2, \*4, 8/8H, 10, 12, \*25

*\*4 and 25 combined: maximum credit, 1 course.*

**Computer Information Technology** \*12, \*15, 40, 60, 63, 66, 70

*\*12 and 15 combined: maximum credit, 1 course.*

**Computer Science** 1, 26, 40, 41, 45

**Counseling** 53, 54

**Criminology** 1, 5, 6, 13

**Dance** 8, \*9, 10A, 10B, 11, 12A, 12B, 13A, 13B, 14,

15, 16, 17A, 17B, 18, 20A, 20B, 21, 22, 27A, 27B,

28, 28B, 30, 31, 32

*\*Any or all of these PE Activity courses combined; maximum credit, 4 units.*

**Decision Science** 10, \*21, \*\*23, 25, 40, 44

*\*21, Math 21 combined: maximum credit, 1 course.*

*\*\*23, Math 11/11H, 42 and Psychology 42 combined: maximum credit, 1 course.*

**Developmental Services** 50, 51, 52, 53, 54, 55

**Economics** 40/40H, 50/50H

**Education** 30

**Engineering** 1A, 2, 4, 5, 6, 8, 10, 12

**English** 1A/1AH, 1B, 3/3H, 12, 14, 15A, 15B,

15C, 15D, 17, 20, 36, 40, 42, 44A, 44B, 45, 46A,

46B, 47, 48A, 48B

**Film** 1, 2A, 2B, 3, 5, 6

**Food and Nutrition** 35, 40

**French** 1, 2, 3

**Geography** \*1, 2, 4A, 4B, \*7, 8, 10, 12, 18, 20

\*1 and 7 combined: maximum credit, 1 course.

**Geology** 1, 2, 2L, 3, 4, 5, 7, 8, \*9, 12

\*No credit for 9 if taken after 1, 2/2L, 3, 4, 5, 8 or ASTRO 10.

**German** 1, 2**Global Studies** 1, 2**Graphic Communications** 15, 24A, 27, 31,

34, 39A, 40A, 41, 47

**Health Science** 1, 2, \*3

\*Any or all of these courses combined: maximum credit, 8 units

**History** 1, 2, 3, 11, 12/12H, 15, 17, 18, 20, 21,

22, 23, 25, 29, 30, 34

**Hmong** 1, 2**Honors Studies** #1A, \*1C, 1D, 1E

#Variable topics; evaluation completed by individual campuses after admission.

\*1C must be taken concurrently with PHIL 1AH, ENGL 3H, ART 5H or ART 6H for credit.

**Human Services** 10, 20**Humanities** 10, 11, 42**Individual Study** #49

#Variable topics; evaluation completed by individual campuses after admission.

**Japanese** 1, 2**Journalism** 1, 16**Linguistics** 10, 10H**Mathematics** +3A, +4B, 5A, 5B, 6, 7, \*10A, \*10B, °11/11H,

17, 21, 26, °42, 45

+3A and 4B combined: maximum credit, 5 semesters/7.5 quarter units.

\*10A and 10B combined: maximum credit, 1 course.

°11/11H, 42, Decision Science 23, and Psychology 42 combined: maximum credit, 1 course.

**Military Science** \*1, \*2, \*11, \*12, \*50, \*55, \*60, \*65

\*Any or all of these courses and Aerospace Studies 1A, 1B, 2A, 2B, 3 combined: maximum credit, 8 units.

**Music** 1A, 1AE, 1B, 2A, 2B, \*3, 4, 5, 6, 7A, 7B, 7C, 7D, 8,

9, 10A, 10B, 12, 13, 15, 16, 17, 18, 20, 21, 22, 24, 25,

26, 27, 28, 29, 30, 34, 35, 39A, 39B, 39C, 39D,

40, 41, 42A, 42B, 42C, 42D, 46, 47A, 47B, 47C,

47D, 48, 49, 53, 54, 55, 57, 59, 60, 68, 72, 76, 92

\*No credit for 3 if taken after 1A.

**Natural Science** 1A**Philosophy** 1A/1AH, 1B, 1C/1CH, 1D, 2/2H, 3A, 3B, 5, 6**Photography** 5, 6, 12, 15, 17, 18, 23, 49, 57**Physical Education** \*3-17, 20, +24, +26, \*27,

+28, +29B-42B, \*29C-44C, \*45, \*46B, \*46C, +62,

\*70, \*71, \*72

\*Any or all of these PE Activity courses combined: maximum credit, 4 units.

+Any or all of these PE Theory courses combined; maximum credit, 8 units.

**Physical Science** \*11

\*No credit if taken after a college level course in Physics or Astronomy.

**Physics** \*2A, \*2B, \*4A, \*4B, \*4C

\*2A and 2B and 4A, 4B, 4C combined: maximum credit, 1 series. Deduct credit for duplication of topics.

**Political Science** 1, 2/2H, 3, 5, 6, 13, 24**Portuguese** 1, 2**Psychology** 2/2H, 5, 16, 25, 33, 36, 38, 39, \*42, 45

\*42, Math 11/11H, 42 and Decision Science 23 combined: maximum credit, 1 course.

**Sociology** 1A/1AH, 1B, 2, 5, 7, 10, 14, 32**Spanish** 1, #2, #2NS, \*3, \*3NS, +4, +4NS, 5, 6,

7, 8, 9, 41, 42

#2 and 2NS combined: maximum credit, 1 course

\*3 and 3NS combined: maximum credit, 1 course

+4 and 4NS combined: maximum credit, 1 course

**Special Studies** #47

#Variable topics; evaluation completed by individual campuses after admission.

**Theatre Arts** 12, 15C, 23, 25, 27A, 27B, 28, 29A,

29B, 30, 31, 32, 35, 36, 38, 39A, 39B, \*41, \*42,

43, 44A, 44B, 46

\*41 and 42 combined: maximum credit, 1 course.

**Women's Studies** 5, 7, 10, 22, 24, 36, 41, 47

Note: A number of courses are cross-referenced—the same course is listed in more than one area, department or discipline—usually with the same course number. Credit can be earned only once for cross-referenced courses. See the individual course listings in the “Course Descriptions” section of the catalog. Honor Course Credit Limitation—duplicate credit will not be awarded for both the honors and regular versions of a course. Credit will only be awarded to the first course completed with a grade of “C” or better.

## Intersegmental General Education Transfer Curriculum (IGETC) to CSU and UC

Completion of all of the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University or University of California system. The student will not be required to complete additional lower division general education courses after transfer.

It should be noted that completion of the IGETC is not a requirement for admission to the CSU or UC, nor is it the

The Associate Degree for Transfer in Theatre Arts is designed for students who plan to complete a bachelor's degree in a similar major at a California State University campus. To earn a transfer degree, students must complete a maximum of 60 units of CSU-transferable coursework with a minimum 2.0 GPA.

only way to fulfill the lower-division general education requirements prior to transfer. Depending on a student's major, it may be advantageous to fulfill the CSU's or UC's general education requirements or those of the particular campus, school or college to which the student plans to transfer. This applies generally to high-unit majors.

The course requirements for all areas must be completed before the IGETC can be certified. All courses must be completed with grades of "C" or better.

### Area 1 – English Composition

CSU—Three courses required, one each from 1A, 1B, and 1C (nine semester units minimum);

UC—Two courses required, one each from Group 1A and 1B (six semester units minimum).

#### 1A English Composition

One course, three semester units.

\*\*English 1A/1AH, Reading and Composition ..... 4

#### 1B Critical Thinking — English Composition

One course, three semester units.

\*\*English 3/3H, Critical Reading and Writing ..... 3

Philosophy 2, Critical Reasoning and Analytic Writing ..... 3

Philosophy 2H, Honors Reasoning and Analytic Writing ..... 3

#### 1C Oral Communication

(CSU only: One course, three semester units)

Communication 1, Intro to Public Speaking ..... 3

\*\*Communication 4, Persuasion ..... 3

Communication 8/8H, Group Communication ..... 3

\*\*Communication 25, Argumentation ..... 3

### Area 2 – Mathematical Concepts and Quantitative Reasoning

One course required (three semester units minimum).

Computer Science 26, Discrete Mathematics for Computer Science ..... 4

Decision Science 21, Finite Mathematics ..... 3

Decision Science 23, Business Statistics ..... 4

Mathematics 3A, College Algebra ..... 4

Mathematics 4B, Pre-Calculus ..... 4

Mathematics 5A, Mathematical Analysis I ..... 5

Mathematics 5B, Mathematical Analysis II ..... 4

Mathematics 6, Mathematical Analysis III ..... 4

\*\*Mathematics 10A, Structure and Concepts in Mathematics I ..... 3

\*\*Mathematics 10B, Structure and Concepts in Mathematics II ..... 3

\*\*Mathematics 11/11H, Elementary Statistics ..... 4

Mathematics 17, Differential Equations and Linear Algebra ..... 5

Mathematics 21, Finite Mathematics ..... 3

Mathematics 26, Elementary Linear Algebra ..... 3

\*\*Mathematics 42, Statistics for the Behavioral Sciences ..... 4

\*\*Psychology 42, Statistics for the Behavioral Sciences ..... 4

### Area 3 – Arts and Humanities

At least three courses with at least one from Arts and one from Humanities (nine semester units minimum).

#### 3A Arts

African-American St 3, African-American Art ..... 3

African-American St 15, African-American Music ..... 3

American Indian St 35, American Indian Art ..... 3

Asian American St 55, Introduction to Asian Art ..... 3

Architecture 15A, History of Architecture I ..... 3

Architecture 15B, History of Architecture II ..... 3

Art 2, Art Appreciation ..... 3

\*\*Art 5/5H, Art History Ancient to Medieval ..... 3

\*\*Art 6/6H, Art History Renaissance to Modern ..... 3

Art 55, Introduction to Asian Art ..... 3

Art 60, Art of the Ancient Americas ..... 3

Art 70, Modern and Contemporary Art ..... 3

Chicano-Latino St 20, Chicano Art ..... 3

Chicano-Latino St 22, Art of the Ancient Americas ..... 3

Dance 30, Dance Appreciation ..... 3

Film 6, Film Genres ..... 3

\*\*Music 3, Music Fundamentals ..... 3

Music 12, Music Appreciation ..... 3

Music 13, History of Music ..... 3

Music 16, Jazz History and Appreciation ..... 3

Music 17, History of Rock ..... 3

Theatre Arts 30, Theatre Appreciation ..... 3

Theatre Arts 31, Theatre History and Dramatic Lit I ..... 3

Theatre Arts 32, Theatre History and Dramatic Literature II ..... 3

#### 3B Humanities

African-American St 17, African-American Literature ..... 3

American Sign Language 2, High-Beginning American Sign Language ..... 4

American Sign Language 3, 4, Intermediate American Sign Language ..... 4-4

American Sign Language 7, Deaf History ..... 3

American Sign Language 8, American Sign Language Literature/Folklore ..... 3

Armenian 2, High-Beginning Armenian ..... 5

Asian-American Studies 8, Chinese Culture ..... 3

Chicano-Latino St 21, Chicano Literature ..... 3

Chinese 2, High-Beginning Chinese ..... 5

**English 1B, Introduction to the Study of Literature.....	3	**Spanish 3NS, 4NS, Intermediate Spanish for Spanish Speakers .....	5-5
English 12, The Bible as Literature .....	3	Spanish 5, The Short Story: Mexico, Spain, and the U.S. ....	4
English 14, Folklore.....	3	Spanish 6, The Short Story: Latin America .....	4
English 17, African-American Literature .....	3	Spanish 7, Advanced Spanish: Comp and Grammar.....	4
English 36, Women's Literature .....	3	Spanish 41, Introduction to Poetry in Spanish.....	4
English 42, Classic Myths .....	3	Spanish 42, Hispanic American Culture .....	4
English 44A, World Literature to the Renaissance.....	3	Women's Studies 36, Women's Literature .....	3
English 44B, World Literature Since the Renaissance.....	3		
English 45, Contemporary World Literature .....	3		
English 46A, English Literature to 1800.....	3		
English 46B, English Literature from 1800 to the Present.....	3		
English 47, Introduction to Shakespeare.....	3		
English 48A, Introduction to American Literature to 1865 .....	3		
English 48B, Introduction to American Literature from 1865 to the Present.....	3		
Film 1, Introduction to Film Studies .....	3		
Film 2A, History of Cinema 1895-1960 .....	3		
Film 2B, History of Cinema 1960-Present .....	3		
Film 3, Film and Culture.....	3		
French 2, High-Beginning French.....	5		
French 3, Intermediate French .....	5		
German 2, High-Beginning German.....	5		
**History 1, Western Civilization to 1648 .....	3		
**History 2, Western Civilization since 1648 .....	3		
Hmong 2, High-Beginning Hmong .....	5		
**Humanities 10, Classical Humanities .....	3		
**Humanities 11, Modern Humanities .....	3		
Humanities 42, Classic Myths .....	3		
Japanese 2, High-Beginning Japanese .....	5		
Linguistics 10, Introduction to Language.....	3		
Linguistics 10H, Honors Introduction to Language.....	3		
**Philosophy 1A/1AH, Theories of Knowledge and Reality .....	3		
Philosophy 1B, Social and Political Philosophy.....	3		
Philosophy 1C/1CH, Ethics .....	3		
Philosophy 1D, World Religions.....	3		
Philosophy 3A, Ancient Philosophy.....	3		
Philosophy 3B, Modern Philosophy .....	3		
Philosophy 5, Philosophy of Religion.....	3		
Portuguese 2, High-Beginning Portuguese.....	5		
Spanish 2, High-Beginning Spanish.....	5		
Spanish 2NS, Preparatory Spanish for Native Speakers .....	5		
**Spanish 3, 4, Intermediate Spanish .....	5-5		
		<b>Area 4 – Social and Behavioral Sciences</b>	
		<i>At least three courses from at least two different disciplines (nine semester units minimum).</i>	
		<b>4A Anthropology and Archaeology</b>	
		**Anthropology 2/2H, Cultural Anthropology .....	3
		Anthropology 3, Archaeology and World Prehistory .....	3
		Anthropology 4, Introduction to Archaeology .....	3
		Anthropology 8, Language and Culture .....	3
		Anthropology 12, Visual Anthropology: Introduction to Ethnographic Film.....	3
		<b>4B Economics</b>	
		**Economics 40/40H, Introduction to Microeconomics .....	3
		**Economics 50/50H, Introduction to Macroeconomics .....	3
		<b>4C Ethnic Studies</b>	
		African-American St 1, Introduction to African American Studies .....	3
		African-American St 34, History of the American Civil Rights Movement.....	3
		American Indian St 31, American Indian Culture.....	3
		American Indian St 34, American Indian in Contemporary Society.....	3
		Asian-American St 1, Indo-Chinese Americans.....	3
		Asian-American St 10, Hmong Culture.....	3
		Asian-American St 15, Introduction to Asian-Americans.....	3
		Asian-American St 25, Asian American Social Issues.....	3
		Chicano-Latino St 11, Introduction to Chicano-Latino Studies .....	3
		Chicano-Latino St 12, Mexican American History .....	3
		History 34, History of the American Civil Rights Movement.....	3
		Journalism 16, Race, Gender and the Media.....	3



<b>4D Gender Studies</b>	Global Studies 2, Global Issues..... 3
History 22, History of American Women..... 3	Journalism 1, Introduction to Mass Communication ..... 3
Journalism 16, Race, Gender and the Media..... 3	Psychology 39, Child Growth and Development..... 3
Women's St 10, Changing Roles of Women..... 3	<b>4H Political Science, Government &amp; Legal Institutions</b>
Women's Studies 47, Introduction to Lesbian and Gay Studies..... 3	American St 11, Law and Democracy..... 3
<b>4E Geography</b>	Political Science 1, Modern Politics ..... 3
Geography 2, Cultural Geography..... 3	**Political Science 2/2H, American Government ..... 3
Geography 4A, 4B, World Geography ..... 3-3	Political Science 3, Introduction to Political Theory and Thought..... 3
Geography 20, Geography of California..... 3	Political Science 5, Comparative Government ..... 3
<b>4F History</b>	Political Science 24, International Relations ..... 3
African-American St 4, Classical and Pre Colonial Africa ..... 3	<b>4I Psychology</b>
African-American St 34, History of the American Civil Rights Movement..... 3	Child Development 38, Lifespan Development..... 3
Chicano-Latino St 29, History of Mexico, Colonial to Contemporary Period..... 3	Child Development 39, Child Growth and Development..... 3
History 3, History of Ancient Rome..... 3	**Psychology 2/2H, General Psychology..... 3
History 11, History of the United States to 1877 ..... 3	Psychology 38, Lifespan Development ..... 3
History 12/12H, History of the United States Since 1877..... 3	Psychology 39, Child Growth and Development..... 3
History 15, History of the British Isles ..... 3	<b>4J Sociology &amp; Criminology</b>
History 17, History of the Muslim World to 1405 ..... 3	Human Services 10, Introduction to Aging Studies..... 3
History 18, History of Ancient Greece ..... 3	Sociology 1A/1AH, Intro to Sociology ..... 3
History 20, World History I, to 1600..... 3	Sociology 2, American Minority Groups..... 3
History 21, United States Civil War..... 3	Sociology 10, Introduction to Aging Studies ..... 3
History 22, History of American Women..... 3	
History 23, World History II, since 1500..... 3	
History 25, History of Religion in the United States..... 3	
History 29, History of Mexico, Colonial to Contemporary Period..... 3	
History 30, California History ..... 3	
History 34, History of the American Civil Rights Movement..... 3	
Women's Studies 22, History of American Women..... 3	
<b>4G Interdisciplinary, Social &amp; Behavioral Sciences</b>	
American St 10, American Pluralism: A Search for Common Ground in a Multicultural Society..... 3	
Chicano-Latino St 30, Migration and the Family: Social and Psychological Perspectives..... 3	
Child Development 30, Child, Family, and Community ..... 3	
Child Development 39, Child Growth and Development..... 3	
Global Studies 1, Introduction to Global Studies..... 3	
	<i>Area 5 – Physical and Biological Sciences</i> <i>At least two courses, one Physical Science and one Biological Science (seven to nine semester units minimum). One course must have a lab component (indicated by "L").</i>
	<b>5A Physical Sciences</b>
	Astronomy 10(L), Basic Astronomy ..... 3
	**Chemistry 1A(L), 1B(L), General Chemistry ..... 5-5
	**Chemistry 3A(L), Intro General Chemistry..... 4
	Chemistry 8A, Elementary Organic Chemistry ..... 3
	Chemistry 28A, Organic Chemistry I ..... 3
	Chemistry 28B, Organic Chemistry II ..... 3
	**Geography 1(L), Physical Geography ..... 4
	**Geography 7(L), Physical Geography - Earth Surface..... 4
	Geography 8(L), Physical Geography - Weather/Climate ..... 4
	Geology 1(L), Physical Geology ..... 4
	Geology 2, Historical Geology ..... 3
	Geology 4, Geology of California..... 3

Geology 5, Introduction to Oceanography.....	3
Geology 12, Environmental Science .....	3
**Physical Science 11, Intro Physical Science.....	3
**Physics 2A(L), General Physics 1.....	4
**Physics 2B(L), General Physics 2.....	4
**Physics 4A(L), 4B(L), 4C(L), Physics for Scientists and Engineers.....	4-4-4
<b>5B Biological Sciences</b>	
Anthropology 1, Biological Anthropology .....	3
**Biology 3(L), Introduction to Life Science .....	4
Biology 4(L), Principles of Zoology .....	5
Biology 5(L), Human Biology .....	4
Biology 6(L), Principles of Botany .....	5
Biology 11A(L), Biology for Science Majors I .....	5
Biology 11B(L), Biology for Science Majors II .....	5
Biology 14, Conservation Biology .....	3
Biology 20(L), Human Anatomy.....	4
Biology 21A(L), Human Anatomy and Physiology.....	4
Biology 21B(L), Human Anatomy and Physiology II.....	5
Biology 22(L), Human Physiology.....	5
Biology 31(L), Microbiology.....	5
Biology 55, Introduction to the Biology of Humans .....	3
<b>5C Science Laboratory</b>	
Anthropology 1L, Biological Anthropology Lab.....	1
Chemistry 1A, General Chemistry.....	5
Chemistry 3A, Introduction to General Chemistry .....	4
Chemistry 29A, Organic Chemistry Lab I.....	2
Chemistry 29B, Organic Chemistry Lab II .....	2
**Geography 1, Physical Geography .....	4
Geology 2L, Historical Geology Lab .....	1
Physics 4A, 4B, 4C, Physics for Scientists and Engineers.....	4-4-4

### Area 6 – UC Requirement in Language Other than English

Proficiency equivalent to two years of high school study in the same language with “C” or better grades (at Fresno City College one course required if not met by high school foreign language).

American Sign Language 1, Beginning American Sign Language.....	4
American Sign Language 2, High-Beginning American Sign Language .....	4
American Sign Language 3, Intermediate American Sign Language .....	4

American Sign Language 4, High- Intermediate American Sign Language.....	4
Armenian 1, Beginning Armenian .....	5
Armenian 2, High-Beginning Armenian .....	5
Chinese 1, Beginning Chinese.....	5
Chinese 2, High-Beginning Chinese.....	5
French 1, Beginning French.....	5
French 2, High-Beginning French.....	5
French 3, Intermediate French .....	5
German 1, Beginning German.....	5
German 2, High-Beginning German.....	5
Hmong 1, Beginning Hmong .....	5
Hmong 2, High-Intermediate Hmong.....	5
Japanese 1, Beginning Japanese .....	5
Japanese 2, High-Beginning Japanese .....	5
Portuguese 1, Beginning Portuguese.....	5
Portuguese 2, High-Beginning Portuguese.....	5
Spanish 1, Beginning Spanish.....	5
Spanish 2, High-Beginning Spanish.....	5
**Spanish 3, Intermediate Spanish .....	5
**Spanish 3NS, Intermediate Spanish for Spanish Speakers .....	5
**Spanish 4, High-Intermediate Spanish .....	5
**Spanish 4NS, High-Intermediate Spanish for Spanish Speakers .....	5
Spanish 7, Advanced Spanish: Composition and Grammar .....	4

### Area 7 – CSU Graduation Requirement in U.S. History, Constitution, and American Ideals

One course from each group (six semester units minimum). This requirement is NOT part of IGETC, but may be completed prior to transfer. CSU campuses have the discretion whether to allow courses to satisfy the CSU United States History, Constitution and American Ideals (AI) graduation requirement to count in both Areas 3B/4 and to meet the AI graduation requirement.

#### Group 1:

Political Science 2/2H, American Government.....	3
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#### Group 2:

History 11, 12, History of the United States to 1877, or History of the United States Since 1877 .....	3
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#### Notes:

1. Courses may be listed in more than one area, but can be certified in only one area except for courses in Languages other than English, which can be certified in both areas 3B and 6A.
2. \*\* Indicates that transfer credit may be limited by either UC or CSU or both. Please consult with a counselor for additional information.
3. All courses listed for IGETC are approved for CSU GE and are transferable to UC.

4. *Advanced Placement credit: Exam scores of 3, 4 or 5 can be used to meet IGETC subject areas and English Composition but not Critical Thinking.*
5. *This pattern should not be used for the following majors at the University of California campuses listed. It either will not be accepted or contains more courses than are required. Use the GE-Breadth requirement for the individual program in the campus catalog. It is critical for admission that students complete all lower division major preparation in addition to the GE-Breadth requirement selected.*

The following information is taken from the University of California's website at [www.universityofcalifornia.edu](http://www.universityofcalifornia.edu).

U.C. Berkeley

#### **Colleges of Chemistry and Engineering**

In general, IGETC is not appropriate.

#### **College of Environmental Design**

IGETC is acceptable with full certification to fulfill CED's breadth requirements.

#### **College of Letters and Science**

Either IGETC or the college's requirements are acceptable.

#### **College of Natural Resources**

IGETC is acceptable; however, specific lower division major requirements must still be satisfied.

#### **Haas School of Business**

IGETC is not accepted.

U.C. Davis

All undergraduate colleges accept IGETC. However, Bachelor of Science degrees and high-unit majors often have many courses for lower-division preparation. In these cases, IGETC is not recommended and the UC Davis general education pattern is a better choice.

U.C. Irvine

All schools accept IGETC. However, selection by the campus is based on demonstrated academic achievement and preparation for the intended major.

U.C. Los Angeles

The Henry Samueli School of Engineering and Applied Science does not accept IGETC.

U.C. Merced

#### **School of Engineering and School of Natural Sciences**

IGETC is not recommended.

#### **School of Social Science, Humanities, and Arts**

IGETC is recommended, and students are encouraged to complete as much lower-division major preparation as possible prior to transfer.

U.C. Riverside

#### **College of Humanities, Arts and Social Sciences**

IGETC is recommended.

#### **College of Natural and Agricultural Sciences**

IGETC is not accepted.

#### **The Marlan and Rosemary Bourns College of Engineering**

IGETC is accepted; some additional coursework may be required after enrollment.

#### **School of Business Administration**

IGETC is required.

U.C. San Diego

IGETC is accepted by John Muir, Earl Warren, Sixth and Thurgood Marshall colleges only.

#### **Eleanor Roosevelt and Revelle Colleges**

IGETC is accepted; some additional coursework may be required after enrollment.

U.C. Santa Barbara

#### **College of Creative Studies and College of Letters and Science**

IGETC is accepted.

#### **College of Engineering**

Students are encouraged to focus on major preparation rather than general education. IGETC may be used to substitute for most general education requirements. However, some additional coursework may be required after enrollment to complete the depth requirement if not satisfied during IGETC certification.

U.C. Santa Cruz

For majors in the physical and biological sciences or the **Jack Baskin School of Engineering**, IGETC is not recommended. Students should ensure completion of lower-division courses for their intended majors.

## Transfer Requirements of Private/Independent and Out-of-State Colleges and Universities

Transfer requirements of the private/independent and out-of-state colleges and universities differ from one institution to another. Students should acquaint themselves with the current catalog of the college to which they plan to transfer for admission, general education, and major preparation information. It is up to the receiving institution to determine application of credit. The Fresno City College Transfer Center has a library of catalogs for student use as well as computers with Internet access for college websites and catalogs online. See a counselor for assistance.




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# ADMINISTRATIVE POLICIES

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## Student Conduct Standards

Students are expected to conduct themselves as responsible citizens whenever they are on the campus or representing Fresno City College in any activity. The Board of Trustees has adopted specific rules and regulations governing student behavior along with applicable penalties for violations. The student conduct standards and discipline policy (Board Policy No. 5500) is cited below, and students consequently are held responsible for familiarizing themselves with these rules and regulations (Education Code 66300). All campus activities must have the prior approval of the administration of the college.

## State Center Community College District (SCCCD) Policy Statement

Once a student enrolls in courses on a campus of the State Center Community College District, that individual accepts both the rights and responsibilities associated with that enrollment. The State Center Community College District exists to educate individuals in our community. All other considerations are secondary. The district will not infringe on anyone's constitutional rights and the right to dissent and to protest. However, the right to dissent and to protest must not be construed as a right to disrupt operation of the institution. No individual or group can be permitted to infringe on the rights of others to secure an education.

These conduct standards, and Administrative Regulation 5520 which defines discipline procedures, apply to all students who are enrolled in courses offered by either college of the State Center Community College District. Any student will be subject to discipline who, in any way:

1. prevents other students from pursuing their authorized curricular or co-curricular interests;
2. interferes with or disrupts faculty and administrators who are fulfilling their professional responsibilities;
3. prevents classified employees from fulfilling their prescribed duties;
4. disrupts presentations by authorized guests; or
5. deliberately endangers the safety of persons, or the security of college property.

## Student Assembly

In accordance with state law, the district recognizes the right of peaceful assembly and will make facilities available for recognized staff and student groups when such assembly does not obstruct free movement of persons about the campus, the normal use of classroom buildings and facilities, and normal operations of the college or the instructional program, and when it does not jeopardize the safety of persons, lead to the destruction of property, or violate the laws of the district, state or nation. Persons who are not members of the student body or the college and who violate this policy shall be subject to the control of public authorities.

## Exercise of Free Expression

In stating its policy on the distribution of materials, the governing board of this district has assumed that each student is responsible for their actions individually, even when acting as a member of an organization, and that no student, by following district or college policies, regulations or procedures, escapes individual responsibility for observing laws relating to such matters as libel, copyright violation, and obscenity.

Bulletins, circulars, publications, or articles of any character prepared by a student currently enrolled in an institution of this district, or by a campus organization officially recognized by a college of this district may be distributed on a college campus of this district only when such distribution is in accordance with established regulations.

With the exception of publications and materials sold or circulated by offices or agencies of this district and of district colleges, all publications and materials to be circulated on campuses of the district shall be subject to the foregoing policy provisions.

This policy is not intended to limit the use of sectarian, partisan, or denominational materials for legitimate library and classroom use.

## Student Protests and Demonstrations

The students, faculty, and administration of the community college district are expected to respect the rights of the minority just as much as they respect those of the majority. Every individual, operating within the law, is guaranteed the basic freedom to participate in demonstrations or protests as long as they do not interfere with the primary focus of the college — education. Picketing, demonstrations, or other forms of protest are not to be carried on so as to interfere with instructional activities or the normal flow of student traffic in and out of buildings.

Each college has the right to make and enforce reasonable regulations relating to the time, place, and manner of the exercise of these rights, in order to prevent interference with college programs and services.

## Student Publications

Student publications are a valuable aid in establishing and maintaining an atmosphere of free and responsible discussion and in intellectual exploration. They serve as a means of bringing student concerns to the attention of the college community and the public and of formulating student opinion on various issues.

The editorial freedom of student editors and managers entails corresponding responsibilities to be governed by the canons of responsible journalism such as the avoidance of libel, indecency, undocumented allegations, attacks on personal integrity, and the techniques of harassment and innuendo. As safeguards for the editorial freedom of student publications, the following provisions shall apply:

1. Editors and managers of student publications shall be protected from arbitrary suspension and be removed only for proper cause through orderly procedures.
2. All college published and financed student publications shall state explicitly on the editorial page that the opinions there expressed are not necessarily those of the college or the student body.

## Computer/Network Equipment Use Policy

Every State Center Community College District (SCCCD) student is permitted to use a District-owned computer/network. As a condition of this use, each student agrees to:

- use the computer/network for educational purposes only and not for any commercial purpose or financial gain;
- use the computer and software in an ethical manner; this means the student will respect the security of the District's computer system and will not illegally gain access to any network, hardware or software;

- not take or copy any copyrighted or patented software or any part of such software; further, the student agrees not to install/uninstall any program or software, including shareware programs, on the computer;
- not use the electronic mail system for any illegal or illicit purpose, including solicitation; the District reserves the right to monitor all computer activities on its computers; the student agrees to abide by the rules of any other computer system that they may contact through the Internet;
- not transmit any communication in which the meaning of the message or its transmission or distribution would violate any applicable law or regulation or be offensive to the recipient or recipients; and
- not search, view or download pornographic material through any means.

It is understood that information, programs or data a student obtains from the Internet are used at their own risk. The student is responsible for any damage caused by malicious programs, commonly known as viruses, received from the Internet.

Each student is expected to abide by the District's Acceptable Use Policy (<http://www.scccd.edu/departments/information-systems/scccd-use-policy.html>). The District is the sole determiner of the interpretation and application of the Acceptable Use Policy. It is understood that if a student violates any of the above rules, they are subject to removal from the computer facility as well as discipline as a student.

## Tobacco-Free Campus

Fresno City College is a tobacco-free campus. In order to provide a healthier environment for students, faculty, staff and visitors the State Center Community College District Board of Trustees adopted a new policy on June 4, 2019 that prohibits the use of smoking, vaping and any tobacco use on campus. This comes following the adoption of a new resolution by the California Community College Board of Governors in 2018.

## Drug Abuse Policy

For the protection of other students in the State Center Community College District, the Governing Board of this District may suspend or expel, and the Chancellor of this District is authorized to suspend a student whenever it is established to the satisfaction of the Board or the Chancellor, as the case may be, that the student has on college premises used, sold or been in possession of narcotic or other hallucinogenic drugs or substances, or has on college premises inhaled, or breathed the fumes of, or ingested any poison classified as such by Schedule D in Section 4160 of the Business and Professions Code.

## Academic Freedom

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### General Principles

The State Center Community College District is unequivocally and unalterably committed to the principle of academic freedom in its true sense which includes freedom to study, freedom to learn and freedom to teach and provide educational professional services to students.

Academic freedom encompasses the right of an instructor to discuss pertinent subjects within his or her field of professional competency in the classroom, consistent with course objectives, and for counselors, librarians and other academic employees to provide appropriate student services within their fields of professional competency and consistent with sound educational principles.

Neither District officials nor outside individuals or groups may interfere with or censure an academic employee because of the employee's proper treatment of pertinent subjects, or provision of proper educational professional services to students is precluded by the principle of academic freedom.

Faculty must, however, accept the responsibility that accompanies academic freedom. The right to exercise any liberty implies a duty to use it responsibly. Academic freedom does not give faculty freedom to engage in indoctrination. Nor can faculty invoke the principle of academic freedom to justify non-professional conduct.

An essential point that pertains to academic freedom and that must be considered in relation to subject matter or to professional services to the student is the criterion of suitability. The subject matter, material to be studied, or educational professional services to the student must contribute to the attainment of course objectives or achievement of an educational principle.

The special interests of faculty or the opinion of a person or persons in a class should not supersede the right of other students to be protected against irrelevant or obscene materials or presentations.

### Academic Dishonesty

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Students at Fresno City College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences.

### Cheating

Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers, in an attempt to gain an unearned academic advantage. Cheating may include, but is not limited to, copying from another's work, supplying one's work to another, giving or receiving copies of examinations without an instructor's permission, using or displaying notes or devices inappropriate to the conditions of the examination, allowing someone other than the officially enrolled student to represent the student, or failing to disclose research results completely.

### Plagiarism

Plagiarism is a specific form of cheating and is the use of another's words or ideas without identifying them as such or giving credit to the source. Plagiarism may include, but is not limited to, failing to provide complete citations and references for all work that draws on the ideas, words, or work of others, failing to identify the contributors to work done in collaboration, submitting duplicate work to be evaluated in different courses without the knowledge and consent of the instructors involved, or encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

Incidents of cheating and plagiarism may result in a variety of sanctions and penalties that may range from a failing grade on the particular examination, paper, project, or assignment in question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.

### Authority and Disciplinary Actions

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A student enrolled in courses offered by any college or center of the State Center Community College District assumes an obligation to conduct him/herself in a manner compatible with the college's function as an educational institution. A student may be disciplined, utilizing the procedures set out in Administrative Regulation 5520, for any of the following causes which must be related to college attendance or activity:

1. Causing, attempting to cause, or threatening to cause physical injury to another person.
2. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from the Vice President of Student Services.
3. Unlawful possession, use, sale, offering to sell or furnish, furnishing, or being under the influence of, any controlled substance listed in California Health and Safety Code Section 11053 et seq., an alcoholic beverage, or an intoxicant of any kind or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia as defined in California Health and Safety Code Section 11014.5.
4. Committing or attempting to commit robbery or extortion, or gambling.
5. Causing or attempting to cause damage to District property or to private property on campus. Stealing or attempting to steal District property or private property on campus or knowingly receiving stolen District property or private property on campus.
6. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or the District.
7. Committing sexual harassment as defined by law or by District policies and procedures.
8. Engaging in harassing or discriminatory behavior based on race, sex, religion, age, national origin, disability, or any other status protected by law.
9. Willful misconduct that results in injury or death to a student or to District personnel or which results in cutting, defacing, or other damage to any real or personal property owned by the District or on campus.
10. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, the open and persistent defiance of the authority of, or persistent abuse of, college personnel.
11. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty as defined by the Office of Instruction.
12. Dishonesty, forgery, alteration or misuse of District documents, records or identification, or knowingly furnishing false information to the District.
13. Unauthorized entry upon or use of District facilities.
14. Lewd, indecent, or obscene conduct, or expression on District-owned or controlled property, or at District sponsored or supervised functions.
15. Engaging in expression which is obscene, libelous, or slanderous or which so incites students as to create a clear and present danger of the commission of unlawful acts on District premises.
16. Violation of lawful District regulations or the substantial disruption of the orderly operation of the District.
17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
18. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to digital or electronic recording or handwritten or typewritten class notes except as permitted by any District policy or administrative procedure.
19. Other good cause as shown.

Students are responsible for their conduct, and failure to adhere to accepted standards will result in disciplinary action. Instructors shall be in charge of their classes, and students are under obligation to respect the authority of each instructor.

Fresno City College reserves the right to exclude at any time a student who, in the judgment of the administration, is not taking proper advantage of the opportunities offered.

## Student Rights

Student rights are protected by federal and state laws, and by policies established by the trustees of the State Center Community College District. It is therefore essential for the protection of students' rights that procedures be established and followed that would identify violations of student conduct standards and the resolutions of such violations. Students have a right to an oral or written notice (reasons for disciplinary action), an opportunity for a review, and a decision given orally or in writing. For more information, contact the Vice President of Student Services Office.

## Removal from Class by Instructor

Fresno City College's Student Code of Conduct Policy (Board Policy 5500) authorizes an instructor to remove a disruptive student from his or her class for the day of the removal and the next class meeting. The instructor shall immediately report the removal to the Vice President of Student Services. During the period of removal, a student shall not be returned to the class from which he or she was removed without the concurrence of the instructor of the class.

## Grievance Policy for Students

Students who reasonably believe a college decision or action has adversely affected his or her status, rights, or privileges may file a student grievance form and submit it to the Office of the Vice President of Student Services Office. This policy applies to complaints of discrimination and harassment. Students are expected to make a reasonable effort to resolve matters informally with either the person whom the student has a grievance and then that person's supervisor or a college administrator, if necessary. Students have a right to file a grievance alleging discrimination and harassment whether or not they have attempted to resolve the matter informally with the accused party. All complaints are investigated. Student grievance forms are located in the Office of the Vice President of Student Services.

Inquiries regarding the equal opportunity policies, the filing of grievances, or to request a copy of the grievance procedures covering discrimination complaints may be directed to the Section 504/Title II compliance coordinator:

Vice President of Student Services  
Fresno City College  
1101 E. University Avenue Fresno, CA 93741  
(559) 442-4600, Ext. 8595

For complete details on the college policies regarding discrimination and harassment complaints, refer to Administrative Regulation 3435 on the State Center Community College District website at [www.scccd.edu](http://www.scccd.edu).

## Rights and Responsibilities

### Open Enrollment

It is the policy of this District that, unless specifically exempted by statute or regulation, every course, section, or class, reported for state aid, wherever offered and maintained by the District, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to Title 5 of the California Code of Regulations.

### Student Enrollment Responsibilities

It is the responsibility of all students to be aware of and observe all college policies regarding class enrollment and attendance, including dropping classes.

## Parking Regulations

Student vehicles must display a State Center Community College District parking permit to park in campus parking lots.

Students are required to observe parking regulations with regard to red no-parking zones, private driveways, double parking, handicapped zones, restricted lots, etc., and are reminded that parking in these areas could result in a citation or the vehicle being towed away at the student's expense.

The State Center Community College District Police Department will strictly enforce these regulations. Students are advised to arrive early enough for their first class to allow time for them to obtain a parking space, which may be some distance from the classroom, and to arrive in the classroom on time.

Students may pick up a copy of the complete parking regulations at Campus Police, Calaveras and Weldon, or at the College Business Office, Old Administration Building, room 151.

## Statement of Nondiscriminatory Policy and Obligations

Fresno City College does not discriminate on the basis of race, color, national origin, sex, disability, age, or sexual orientation in any of its policies, procedures, or practices, in compliance with Title VI of the Civil Rights Act of 1964 (pertaining to race, color, and national origin), Title IX of the Education Amendments of 1972 (pertaining to sex), Section 504 of the Rehabilitation Act of 1973 (pertaining to handicap), the Americans with Disabilities Act and the Age Discrimination Act of 1975 (pertaining to age) and California State Law. This nondiscrimination policy covers admission and access to, and treatment and employment in, the college's programs and activities, including vocational education. Inquiries regarding the equal opportunity policies, the filing of grievances, or to request a copy of the grievance procedures covering discrimination complaints may be directed to:

Vice President of Student Services  
Fresno City College  
1101 E. University Avenue  
Fresno, CA 93741  
(559) 442-4600, ext. 8595

The college recognizes its obligation to provide overall program accessibility throughout the college for handicapped persons. Contact Vice President of Student Services to obtain information as to the existence and location of services, activities and facilities that are accessible to and usable by handicapped persons.

The lack of English language skills will not be a barrier to admission and participation in the college's vocational education programs.



Inquiries regarding Federal laws and regulations concerning nondiscrimination in education or the District's compliance with those provisions may also be directed to:

Office for Civil Rights  
U.S. Department of Education  
221 Main Street, Suite 1020  
San Francisco, CA 94105

Las preguntas con respecto a las leyes Federales y reglamentos en referencia a la no-discriminación en la educación, o el cumplimiento del Distrito en dichas previsiones pueden dirigirse también a:

Oficina de los Derechos Civiles  
Departamento de Educación de E.U.  
221 Main Street, Suite 1020  
San Francisco, CA 94105

## Declaración: Póliza de la No-Discriminación y las Obligaciones

Fresno City College no discrimina en base a raza, color, nacionalidad de origen, discapacidad, edad u orientación sexual en cualquiera de sus políticas, procedimientos o prácticas, en cumplimiento con el Título VI de la Ley de Derechos Civiles de 1964 (referente a la raza, color y nacionalidad de origen), Título IX de las Enmiendas de Educación de 1972 (referentes al sexo), Sección 504 de la Ley de Rehabilitación de 1973 (referente a la discapacidad), la Ley de Americanos con Discapacidades y la Ley de Discriminación por Edad de 1975 (referente a la edad) y la Ley Estatal de California. Esta política de no-discriminación cubre la admisión y acceso a, y tratamiento y empleo de los programas y actividades de Fresno City College, incluyendo la educación vocacional. Puede solicitar información con respecto a las políticas de igualdad de oportunidades, poner una queja o solicitar una copia del procedimiento para quejas concernientes a discriminación dirigiéndose a:

Vicepresidente de Estudiantes  
Fresno City College  
1101 E. University Avenue  
Fresno, CA 93741  
(559) 442-4600, ext. 8595

Fresno City College reconoce su obligación de proveer accesibilidad total al programa a través de Fresno City College para personas discapacitadas. Contacte al Vicepresidente de Estudiantes para obtener información con respecto a la existencia y localización de los servicios, actividades e instalaciones a que tienen acceso y pueden ser usadas por las personas discapacitadas.

La falta de habilidad en el idioma Inglés no deberá ser un obstáculo a la admisión y participación en los programas de educación vocacional de Fresno City College.

## Tsab Cai Tsis Pub Muaj Kev Ntxub-ntxaug Thiab Tej Uas Yuav Tsum Tau Ua

Fresno City College yuav tsis pub muaj kev ntxub ntxaug rau tej kev sib txawv ntawm haiv neeg, ntawm nqaij-tawv, tuaj txawv tej chaws tuaj, poj-niam, txiv-neej, neeg xiam oob khab, laus-hluas, los yog qhov kev xaiv ntawm tej kev nkauj nraug li cas nyob rau hauv nws txoj cai, kev khiav dej-num, los yog kev coj, kom raws li txoj cai Title VI ntawm Civil Rights Act ntawm 1964 (uas hais txog ntawm haiv neeg, nqaij-tawv, thiab tuaj txawv teb chaws tuaj), Title IX ntawm qhov Education Amendments ntawm xyoo 1972 (hais txog poj niam-txiv neej), Section 504 ntawm Rehabilitation Act ntawm xyoo 1973 (hais txog neeg xiam oob khab), qhov Americans with Disability Act thiab qhov Age Discrimination Act ntawm xyoo 1975 (hais txog laus-hluas), thiab Xeev California Txoj Cai. Tsab cai tsis pub muaj kev ntxub-ntxaug no muaj vaj-huam sib luag thiab ncaj ncees rau kev tuaj nkag kawm ntawv thiab kev ua hauj-lwm nyob hauv college tej programs thiab lwm yam rau txhua tus, nrog rau kev kawm hauj lwm nyob hauv tsev kawm ntawv. Yog xav paub txog txoj cai vaj-huam sib luag no, muaj kev tsis txaus siab los sis xav tau ib daim ntawv qhia txog txoj cai ntawm kev tawm suab txog tej kev tsis txaus siab thaum raug neeg ntxub ntxaug ntawd no, mus cuag tau rau:

Vice President of Student Services  
Fresno City College  
1101 E. University Avenue  
Fresno, CA 93741  
(559) 442-4600, ext. 8595



The Fresno City College Athletic Department offers 21 intercollegiate teams for both men and women. The FCC Rams have a rich and successful history that includes numerous conference and regional titles along with state championships in several sports.

Lub tsev kawm ntawv paub txog nws lub luag dej num hais tias yuav tsum tau muaj program nyob thoob plaws hauv tsev kawm ntawv rau cov neeg xiam oob khab. Hu rau Dean of Students, rau tej kev pab thiab tej chaw pab, uas muaj rau cov neeg xiam oob khab.

Tus ho tsis paub lus As-kiv zoo los yeej tsis muaj teeb meem li cas rau nws tuaj mus kawm ntawv thiab kawm hauv lwm nyob rau hauv tsev kawm ntawv nqib siab no li.

Yog xav paub txog Tsoom Fwv tej cai tswj txog qhov tsis pub muaj kev ntub-ntxaug nyob rau hauv tej tsev kawm ntawv los yog saib lub District ntawd puas ua raws li xoj cai, mus cuag tau rau:

Office for Civil Rights  
U.S. Department of Education  
221 Main Street, Suite 1020  
San Francisco, CA 94105

## Family Education Rights and Privacy Act (California State and Federal Legislation)

The Family Education and Privacy Act outlines certain rights students have concerning access to and release of their educational records. A comprehensive District policy outlining these rights is available from the Admissions and Records Office. Each student is encouraged to obtain a copy.

Briefly, the Act ensures that the students will have access to their educational records, that the college will not release their records to anyone who is not designated by the student to receive them, except as provided in the law itself.

The law authorizes the release of directory information in the absence of student objection. Directory information is defined in District AR 5040. Objection, if any, to the release of this information may be made known in writing by filing the proper form at the Admissions and Records Office. Such objection shall be in force until changed by the student.

## Sexual Harassment Policy

It is the policy of the governing board of the State Center Community College District that no person shall, on the basis of ethnic group identification, national origin, religion, age, sex, race, color, physical or mental disability, or sexual orientation be subjected to unlawful discrimination in any program or activity of the district. It is further the policy of the governing board that the district shall maintain a working and learning environment free from sexual harassment of its students, employees, and those who apply for student

or employee status. All students and employees should be aware that all institutions of the district are concerned and will take action to eliminate sexual harassment. Engaging in sexual harassment is conduct which may subject the harasser to disciplinary action.

Harassment on the basis of sex is a violation of State and Federal Law.

Sexual harassment means unwelcome sexual advances, requests for sexual favors and other verbal, visual, or physical conduct of a sexual nature, made by someone from or in the work or educational setting, under any of the following conditions:

- a. Submission to the conduct is explicitly or implicitly made a term or a condition of an individual's employment, academic status, or progress.
- b. Submission to, or rejection of, the conduct by the individual is used as the basis of employment or academic decisions affecting the individual.
- c. The conduct has the purpose or effect of having negative impact upon the individual's work or academic performance, or of creating an intimidating, hostile, or offensive work or educational environment.
- d. Submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the educational institution.

Complaints of sexual harassment should be processed according to the terms of District Administrative Regulation 3435.

A copy of the District sexual harassment policy and complaint procedures may be obtained from the Vice President of Student Services, Student Services Building, upper level.

## Change of Address, Telephone Number

Students who have a change of address or telephone number are required to officially notify the college by clicking "Address, Email and Phone Update" on WebAdvisor.

## Other Policies

Additional policies are included in the State Center Community College District policy manual. Manuals are on file and may be consulted in the Fresno City College Library, and the offices of the President, the Vice President of Instruction, the Vice President of Student Services, and the Vice President of Administrative Services.

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# STUDENT SUPPORT SERVICES

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*Fresno City College is a community college that cares about students' success. As a FCC student, you will find a host of services to help you succeed, as well as friendly staff to provide assistance as you pursue your community college education.*

## Bookstore

The Fresno City College Bookstore is operated for the convenience of Fresno City College students. The store carries student supplies, textbooks and other articles of interest to the college community. For business hours please refer to the Bookstore's website at [www.bkstr.com/fresnocstore](http://www.bkstr.com/fresnocstore).

## Return and Refund Policy

- When returning merchandise, students must present their original cash register receipt with the correct dollar amount along with a photo ID. No refund will be given without it. Students have 5 working days from the date on the receipt to return textbooks and 30 days for returnable non-textbook items.
- All sales are final on scantrons, tradebooks/novels and study aids. Various electronics, software and access codes are non-refundable if opened. Access codes that are exposed are also non-refundable.
- A full refund is only given when a class has been canceled by the College and textbook(s) returned are in the same condition as initially bought. In all other cases, there is a 10% handling/restocking charge.
- Textbook condition: New and used textbooks must be returned in salable condition. Any books damaged by liquids are not returnable. New textbooks must be clean, free of all marks, creases and erasures. If not, the books will be considered "used" and may be refunded at the used price. Wrapped, loose-leaf textbooks, e-books, books with exposed or open access codes and boxed merchandise are non-refundable once opened. Used textbooks are sold "as is." Because these books have been used by other customers prior to sale, the Bookstore cannot guarantee their life expectancy.
- The bookstore reserves the right to make the decision on the condition or saleability of all returned merchandise.
- Refunds will be issued in the same manner as paid (if paid with a credit/debit card – refund will be made back to credit/debit card).
- No refunds on textbooks will be given the last four weeks of instruction of any term which includes summer sessions.

The bookstore accepts cash, VISA, MasterCard, Discover Card and American Express. Textbooks can be ordered online at [www.bkstr.com/fresnocstore](http://www.bkstr.com/fresnocstore). Shipments can be picked up at the FCC bookstore or delivered to a stated address. For further information, call (559) 442-8261.

## CalWORKs

The CalWORKs office, located in the Applied Technology 200 building, is a joint venture between the college and the Fresno County Department of Social Services (DSS). Both college and DSS personnel staff the center.

The program provides an array of services to those eligible to participate in the CalWORKs program. Some of the benefits may include:

- financial assistance with child care, transportation, and books
- academic advising, personal and career counseling
- referral for supportive services
- CalWORKs Work Study
- provision of initial school supplies

If you are interested in the CalWORKs program or want to inquire about eligibility for CalWORKs benefits, call (559) 442-8286.

## Child Development Center

The Child Development Center is an integral part of the Child Development Department of Fresno City College. The Center serves as a resource for Fresno City College students to receive professional training and observe children in a quality program. Located on campus at 1621 East University Avenue, to the west of Blackstone Avenue, the Center is open 7:00 a.m. to 5:30 p.m. Monday-Friday. It is open year round and closed for most holidays. The Child Development Center offers childcare services for students, faculty, staff, and community members as space allows. It is a licensed, NAEYC accredited center for children ages two through five. Please access the Child Development Center webpage via the FCC website ([www.fresnocitycollege.edu](http://www.fresnocitycollege.edu)), and click the Child Development Center link for enrollment and other information.

## College Relations

Community outreach services are coordinated through the College Relations office. College Relations specialists regularly visit high schools, businesses and community agencies to advise prospective students regarding college planning. Call (559) 442-8225 for more information.

## Counseling Department

Fresno City College is committed to providing a professional counseling staff, a requirement under California Education Code, Title 5.

Fresno City College counselors meet with students on an individual or small group basis for a range of purposes: developing a Student Education Plan (SEP), interpreting assessment results, recommending further assessment/testing, determining specific course selection for immediate and future registration, identifying students' concerns and making appropriate referrals for services, and supporting the progress and successful achievement of the student's goal through follow-up services. Personal and social concerns are also addressed as they relate to college success. Students are encouraged to take advantage of these services offered at no cost.

Counselors also teach Counseling courses, credit classes for job preparation, college survival skills, career planning, study skills and group dynamics.

Planning an academic program is each student's choice and responsibility. Students are urged to meet with a counselor well in advance to develop and/or update their Student Educational Plan (SEP) in order to obtain current information regarding their course of study and any catalog revisions.

The Counseling Department is located on the second floor of the Student Services Building (ST/Bldg 10). There are different ways to meet with a Fresno City College counselor. To determine which option is best for you visit our website at: [www.fresnocitycollege.edu/counseling](http://www.fresnocitycollege.edu/counseling).

## Transfer Center

The Transfer Center assists students with the transfer process from Fresno City College to a baccalaureate (bachelor) level college or university. The center provides a variety of informational resources for students about the 9 Universities of California (UC), 23 California State Universities (CSU), and provides information on private and out-of-state colleges and universities. Transfer Counselors are also available to assist in developing a Student Educational Plan (SEP) for transfer.

The Transfer Center is located on the second floor of the Student Services Building (ST/Bldg 10). For more information, visit our website: [www.fresnocitycollege.edu/transfercenter](http://www.fresnocitycollege.edu/transfercenter) or call (559) 442-8290.

For additional information, refer to the Transfer Information and Requirements section in the catalog.

## Dream Center

The Dream Center is designed to provide information and academic counseling to new and continuing undocumented students at Fresno City College. Counselors and staff assigned to the Dream Center will assist students in overcoming challenges of access and completion of vocational or transfer-level goals in higher education. The majority of the students served in this office will be identified as Dreamers, Deferred Action for Childhood Arrivals (DACA) or seeking AB 540 status.

The Dream Center is located in the Old Administration Building, OAB-137. For more information, visit our website: [www.fresnocitycollege.edu/student-services/programs/dream-center.html](http://www.fresnocitycollege.edu/student-services/programs/dream-center.html) or call (559)443-8570. Questions may be emailed to [migrantsss@fresnocitycollege.edu](mailto:migrantsss@fresnocitycollege.edu).

## Disabled Students Programs and Services (DSP&S)

The DSP&S Program assists students with disabilities to equally participate in the instructional offerings of the college by providing "above and beyond" services to meet their disability-related educational limitations. These services foster independence and maximum integration into campus life for students with disabilities and are in conformance with the overall mission of Fresno City College.

The student with a disability seeking admission to Fresno City College must meet the following levels of independence:

1. The ability to negotiate the campus facilities independently or with the assistance of an attendant (to be provided by the student);
  2. The ability to take care of their personal needs independently or with assistance of a personal attendant;
- and**
3. The possession of a stable level of health in order to benefit from a full semester's work.

Each student with a disability must sign an authorization at the time of registration which would allow Fresno City College, in the absence of a personal attendant, to seek emergency medical treatment and/or ambulance services in the event it is deemed necessary by Fresno City College. (All costs associated with such medical treatment/transportation are the sole responsibility of the student.)

A "student with a disability" is a person enrolled at a community college who has a verified disability, which limits one or more major life activities resulting in an educational limitation. The existence of a disability may be verified by one of the following means: observation by certificated DSP&S staff; assessment by certificated DSP&S staff; or review of documentation by certificated staff provided by appropriate agencies or certified or licensed professionals outside of DSP&S.

Students are required to meet with a DSP&S counselor to develop an Academic Accommodation Plan (AAP) regarding the academic adjustments, auxiliary aids, services and/or instruction necessary to provide the student equal access to the educational process, given the educational limitations resulting from the student's verified disabilities.

Architectural barriers have been eliminated through the use of low gradient ramps and automatic doors. The college maintains relationships with the Department of Rehabilitation, California Association for the Physically Handicapped and similar agencies. Call (559) 442-8237 for additional information.

## District Police

The District Police Department aids in the instructional and administrative processes of the college and district by protecting the person and rights of all district employees, district and student body property, and private property. Assistance will be given to victims of any type of crime or to persons seeking general law enforcement information. Individuals requiring emergency assistance can call campus police using one of the emergency telephones located in yellow boxes with blue lights outside campus buildings. To report suspicious activities or ask for police assistance, call the Campus Police at (559) 244-5911.

## Extended Opportunity Programs and Services (EOPS)

The Extended Opportunity Programs and Services (EOPS) provides programs and services over, above, and in addition to the regular educational programs of the College and is designed to assist educationally and economically disadvantaged students to be successful in their educational program at Fresno City College.

Services include academic counseling, personal advisement, special instruction, career guidance, tutorial assistance, academic mentoring, financial aid assistance, college transfer counseling, book grants, emergency loans, vocational internships, and priority registration.

Participants are selected according to academic and financial need. The goals of EOPS are directed toward (a) ensuring open access, (b) enhancing student retention, (c) developing systems to increase student success, and (d) providing counseling and support services to achieve vocational training, degree completion, or transfer success.

Students are identified as eligible by staff, contacted and provided a special college orientation, which specifies student and program mutual responsibilities. EOPS mandated services such as educational plan development, progress review session, and end-of-term evaluation are specified. Once selected, the EOPS student continues to receive top priority for continuing EOPS assistance for a maximum of 6-semesters or 70-units; and as long as he/she maintains adequate academic progress and meets all program requirements.

Two supplemental programs exist under the umbrella of EOPS: 1) Cooperative Agencies Resources for Education (CARE) provides additional support and assistance for EOPS students who are recipients of Temporary Assistance for Needy Families (TANF), and single head of household with children under 14 years; 2) The Cooperating Agencies Foster Youth Education Services (CAFYES) is designed to encourage the enrollment, retention, and transfer of current and former foster youth in California's Community Colleges.

EOPS is located in the Student Services Building, lower level, room ST-101. Call (559) 442-8231 for additional information.

## Financial Aid

### Financial Aid and Scholarships

The college provides financial assistance to as many students as possible through scholarships, grants, loans and job opportunities. The following programs are available to qualified students:

- Federal PELL Grants
- Federal Work Study
- Federal Supplemental Educational Opportunity Grants
- Federal Direct Student Loans
- California College Promise Grant (formerly known as the Boards of Governors Enrollment Fee Waiver)
- Cal Grants
- Student Success Completion Grant
- Full-Time Student Success Grant
- Bureau of Indian Affairs Scholarships
- Other Institutional and Noninstitutional Scholarship

Expenses will vary with the type of housing, course of study, transportation, and other factors. Typical annual student expenses are outlined on the financial aid web page at [www.fresnocitycollege.edu/financialaid/](http://www.fresnocitycollege.edu/financialaid/).

Application forms and information concerning financial aid and scholarship programs are available in the Financial Aid Office, room 201, Student Services Building.

Students must apply by March 2 of each year prior to the fall semester if they wish to be considered for the Cal Grant program. Those students applying for the fall semester will be given priority, if eligible, for other state and federal programs if their application is processed and received by the Financial Aid Office by the published priority deadline date. For more information, call (559) 442-8245.

### Coursework Repeatability

A student will only be paid for a passed class, a maximum of two times. If the student chooses to enroll in the same course a third time, the units will be deducted from their Title IV eligible units. A "D" grade is considered passing for financial aid purposes regardless of institutional policy.

### Return of Federal Financial Aid Based Upon Total Withdrawal

A student, who withdraws from all their classes within 60 percent of a semester, will be reviewed by the Financial Aid Office to determine if all or part of any federal financial aid received must be returned to the federal government.

### Financial Aid Satisfactory Progress

To be eligible to participate in the Title IV student financial aid programs provided by the U.S. Department of Education and the State Center Community College District, students must maintain satisfactory academic progress in a program leading to a degree or certificate at the college or transfer to a four-year institution.

Students must maintain at least a 2.0 and must complete at least 67 percent of the units attempted each semester per the Financial Aid Satisfactory Academic Progress Policy. Students will no longer be eligible for financial aid once they have attempted 150 percent of the required units needed for

their educational objective. Additionally, a student also may not be funded for more than 30 units of remedial course work.

The student must be enrolled in an eligible program at Fresno City College, and the remedial course work must be necessary for the student to pursue an eligible postsecondary program.

Students who are terminated from financial aid programs or who are not allowed to participate due to failure to demonstrate or maintain satisfactory progress may appeal this action in writing. The Financial Aid Appeal Committee will review the student's progress and determine whether or not the student will be allowed to participate in financial aid programs. Petitions are available at the Financial Aid Office.

Beginning in the 2012-13 school year, students will have a lifetime Pell grant eligibility equivalent to 12 full-time semesters. All prior Pell grant funding will count toward a student's lifetime eligibility. Once the student has exhausted their Pell grant, they will no longer be eligible to receive a Pell grant at any school ever again. There is no appeal process for lifetime eligibility.

## Asistencia financiera

### Asistencia financiera y becas

El College proporciona asistencia financiera a la mayor cantidad de estudiantes posibles a través de becas, subvenciones, préstamos y oportunidades laborales. Los siguientes programas están disponibles para los estudiantes calificados:

- Becas PELL federales
- Programa Federal Work Study
- Becas Federal Supplemental Educational Opportunity Grant
- Préstamos federales directos para estudiantes
- Promesa para colegios de California (anteriormente conocida como Pago de Matricula por la Junta de Gobernadores)
- Becas de Éxito Estudiantil para Estudiantes para Completar
- Becas Cal Grant
- Éxito Estudiantil para Estudiantes de Tiempo Completo
- Obras becas institucionales y no institucionales

Los gastos variarán según el tipo de vivienda, rama de estudios, transporte y otros factores. Los gastos estudiantiles anuales habituales se describen en la página web sobre asistencia financiera en [www.fresnocitycollege.edu/financialaid/](http://www.fresnocitycollege.edu/financialaid/).

Los formularios de solicitud y la información relacionada con los programas de asistencia financiera y becas están disponibles en la Oficina de Asistencia Financiera, sala 201, Edificio de Servicios a los Estudiantes.

Los estudiantes deben inscribirse antes del 2 de marzo de cada año antes del semestre de otoño si quieren ser tenidos en cuenta para el programa de la beca Cal Grant. A los estudiantes que presenten su solicitud para el semestre de otoño se les dará prioridad, si son elegibles, para otros programas estatales y federales si su solicitud se procesa y recibe en la Oficina de Asistencia Financiera antes de la fecha publicada de prioridad. Para obtener más información, llame al (559) 442-8245.

### Repetición de un curso

Solo se les pagará a los estudiantes por un curso aprobado, como máximo dos veces. Si el estudiante opta por inscribirse en el mismo curso una tercera vez, las unidades se deducirán de sus unidades elegibles conforme al Título IV. A los fines de la asistencia financiera, una calificación "D" se considera aprobada, independientemente de la política institucional.

### Devolución de la asistencia financiera federal luego del abandono total del curso

La Oficina de Asistencia Financiera revisará la situación del estudiante que abandone el total de sus clases dentro del 60 por ciento de un semestre, con el fin de determinar si debe devolverse al gobierno federal la totalidad o una parte de la asistencia financiera federal recibida.

### Avance satisfactorio para la asistencia financiera

Para ser elegible para participar en los programas de asistencia financiera para estudiantes en virtud del Título IV otorgados por el Departamento de Educación de los EE.UU. y por State Center Community College District, los estudiantes deben mantener un avance académico satisfactorio en un programa orientado a conseguir un título o un certificado en el college o un pase para transferencia a una institución de cuatro años. Los estudiantes deben mantener al menos un 2.0 y completar como mínimo el 67 por ciento de las unidades iniciadas cada semestre de conformidad con la Política de Avance Académico Satisfactorio para la Asistencia Financiera. Los estudiantes dejarán de ser elegibles para obtener asistencia financiera una vez que hayan intentado el 150 por ciento de las unidades requeridas necesarias para su objetivo educativo. Además, tampoco se podrán proporcionar fondos para un estudiante por más de 30 unidades de clases de recuperación. El estudiante debe estar inscrito en un programa elegible en Fresno City College, y las clases de recuperación deben ser necesarias para que el estudiante prosiga con un programa de educación pos-secundaria elegible.

Los estudiantes a los que se les cancelen los programas de asistencia financiera o que no estén autorizados a

participar por no demostrar o mantener un avance satisfactorio podrán apelar esta medida por escrito. El Comité de Apelaciones de Asistencia Financiera revisará el avance y determinará si el estudiante podrá o no participar en los programas de asistencia financiera. Las peticiones están disponibles en la Oficina de Asistencia Financiera.

A partir del año escolar 2012-2013, los estudiantes tendrán una elegibilidad vitalicia para una beca Pell equivalente a 12 semestres de tiempo completo. Todos los fondos de becas Pell anteriores contarán para la elegibilidad vitalicia de un estudiante. Una vez que el estudiante haya agotado su beca Pell, nunca más será elegible para recibir una beca Pell en ninguna institución educativa. No existe un proceso de apelaciones para la elegibilidad vitalicia.

## Chaw Pab Nyiaj Kawm Ntaww (Financial Aid)

### Chaw Pab Nyiaj Kawm Ntaww Thiab Lwm Yam Nyiaj Tau Los Ntawm Kawm Ntaww Zoo

Tsev kawm ntawv qib siab muaj nyiaj pub rau cov neeg kawm tau ntawv zoo, muaj nyiaj pub dawb, muaj nyiaj txais thiab nyiaj ua hauj lwm pub rau cov neeg kawm ntawv. Cov kev pab hauv qab no yog cov muaj pab rau cov tub ntxhais kawm ntawv uas muaj feem txais tau:

- Qhov Nyiaj Tsoom Fwv Muab Pab (Federal PELL Grants)
- Qhov Nyiaj Tsoom Fwv Them Ua Hauj Lwm (Federal Work Study)
- Qhov Nyiaj Pab Ntxiv Rau Kev Kawm Ntaww (Federal Supplemental Educational Opportunity Grants)
- Qhov Nyiaj Txais Los Ntawm Tsoom Fwv (Federal Direct Student Loans)
- California Community College lub Grant es Pab Nyiaj (lub npe thaum ub yog Board of Governor Enrollment fee Waive)
- Qhov Nyiaj Pab Los Hauv Xeev California (Cal Grants)
- Cov tub ntxhais kawm ntawv cov nyiaj kev pab (full-time Student Success Grant)
- Cov tub ntxhais kawm ntawv pob nyiaj (completion grant)
- Qhov Nyiaj Tau Los Hauv Cov Neeg Indian Lub Koom Haum Los (Bureau of Indian Affairs Scholarships)
- Qhov Nyiaj Tau Los Ntawm Lwm Cov Koom Haum Los

Kev muaj nuj nqi ntau thiab tsawg kuj yog nyob ntawm nqi vaj tse, nqi ntaub ntawv, nqi khiav mus los, thiab lwm yam. Qhov qhia seb ib tug neeg kawm ntawv twg yuav siv nyiaj thaj tsam pes tsawg no muaj qhia nyob ntawm [www.fresnocitycollege.edu/financialaid/](http://www.fresnocitycollege.edu/financialaid/).

Muaj cov ntawv ua mus thov cov nyiaj no thiab muaj cov ntaub ntawv qhia txog cov qhoos kas pab nyiaj no nyob hauv loos kam Financial Aid Office, chav 201, Hauv lub tsev hu ua Student Services Building.

Cov neeg kawm ntawv yuav tsum ua cov ntaub ntawv thov cov nyiaj no tuaj ua ntej lub 3 hlis tim 2 txhua xyua thiaj yuav tau txais cov nyiaj los kawm ntawv rau thaum lub 8 hli yog lawv muaj feem txais taus. Cov neeg kawm ntawv uas thov rau lub caij hais no yog cov yuav xub tau txais, yog lawv muaj feem, tabsis rau lwm lub xeev thiab lwm yam kev pab los hauv tsoom fww los ces tsuav tuaj txog hauv Loos Kam Financial Aid Office ua ntej lub 4 hlis, tim 15 xwb ces tau lawm. Yog xav paub ntau tshaj nov, hu tau rau (559) 442-8245.

### Cov Hoob Uas Rov Qab Kawm Tau

Cov neeg kawm ntawv tsuas tau them rau cov hoob uas lawv kawm dhau xwb, tabsis tsuas pub 2 zaug xwb. Yog ib tug neeg kawm ntawv xav rov qab kawm dua zaum 3, nws qhov qhab nias yuav muab rho tawm los hauv qhov qhab nias uas nws muaj feem txais tau raws li txoj cai Title IV. Txawm tau tus "D" xwb los hauv qhov chaw muab nyiaj pab no yuav tsis xam lawm txawm muaj lwm txoj cai txwv los tsis ua cas.

### Kev Muab Cov Nyiaj No Them Rov Qab Tuaj Thaum Koj Muab Cov Hoob Rho Tawm

Thaum ib tug neeg kawm ntawv muab nws cov hoob rho tawm txog 60 feem pua tauj ib tog xyoo lawm, Loos Kam Pab Nyiaj Financial Aid Office mam txiav txim seb nws cia pes tsawg thiab muab pes tsawg rov qab mus rau tsoom fww.

### Chaw Pab Nyiaj Qhov Kev Ncaj Ncees

Ua ntej yuav muaj feem txais tau cov nyiaj pab raws li Title IV uas yog cov nyiaj pab los hauv Tsoom Fww lub Loos Kam Saib Xyuas KEv Kawm (U.S. Department of Education and the State Center Community College District), txhua tus neeg kawm ntawv yuav tsum kawm kom tau nyob rau qhov uas nws yuav kawm tiav ib qib tsis hais yuav yog 2 xyoos es ho rov mus kawm kom puv 4 xyoos ntxiv.

Cov neeg kawm ntawv tus qhab nias yuav tsum tsis txhob poob qis tshaj 2.0 thiab yuav tsum kawm tsawg kawg yog 67 feem pua ntawm cov hoob uas koj mus cuv npe kawm thiaj yuav txais tau cov nyiaj pab raws li qhov chaw muab nyiaj Financial Aid Satisfactory Academic Progress Policy txoj cai tau hais. Thaum cov neeg kawm ntawv no kawm tau qhab nias txog 150 feem pua los ntawm cov lawv yuav tsum tau kawm lawm ces luag yuav tsis muab cov nyiaj pab rau nws txoj kev kawm lawm. Dhau ntawd, luag yuav tsis kam pab nyiaj rau cov hoob uas kawm tos lwm hoob yog ntau tshaj

30 qhab nias lawm. Nws yuav tsum nkag mus koom nyob rau Tsev Qhia Ntawv Fresno City College qhov qhoos kas saib xyuas cov hoob no thiab cov hoob uas kawm txhawb no yuav tsum pab tau koj mus kawm rau ib siab ntxiv.

Tag nrho cov neeg kawm ntawv uas raug txiav tsis pab nyiaj rau lawv lawm ces yuav tsis muaj feem nkag tau rau qhov qhoos kas pab nyiaj no lawm vim lawv kawm tsis tau ntawv los sis kawm tsis tau qhab nias zoo muaj cai sau ntawv tuaj foob qhov kev txiav txim no tau. Pab neeg saib xyuas qhov kev foob (The Financial Aid Appeal Committee) yuav ua tib zoo saib tus neeg kawm ntawv no cov kev kawm thiab yuav txiav txim seb tus neeg kawm ntawv no puas muaj feem yuav nkag tau rau lub qhoos kas pab nyiaj no. Muaj daim ntawv kos npe tsis txaus siab (Petitions) nyob hauv loos kam pab nyiaj (Financial Aid Office).

Pib kiag xyoo kawm ntawv 2012-13 no mus, cov neeg kawm ntawv uas muaj feem txais pob nyiaj pub dawb hu ua Pell grant no yuav tau txais kom puv 12 zaug rau them kawm ntawv (12 full-time semesters). Tag nrho cov uas twb tau txais pob nyiaj Pell grant no dua lawm los tseem yuav xam tib si nrog rau cov hais lub sijhawm no. Thaum ib tug neeg kawm ntawv twg siv nws pob nyiaj Pell grant no tag lawm ces nws yuav tsis tau txais ib qho dabtsi ntxiv li lawm tsis hais yuav mus lub tsev kawm ntawv twg li. Tsis muaj kev yuav foob tau qhov uas luag pub rau koj noj tas mus li no.

### Food Services

The campus cafeteria offers an inviting atmosphere to share ideas or study. It features cooked-to-order breakfast and lunch items. Gourmet coffees, juices, baked pastries and snack items are also available. The cafeteria is open for breakfast, lunch and dinner Monday through Thursday and breakfast and lunch on Friday.

The Staff Dining Room provides a quieter atmosphere for enjoying breakfast or lunch.

Taher Food Services offers catering services for campus functions.

For quick snacks, vending machines are located throughout the campus. They are contracted through Canteen.

The Ram Pantry is a free food assistance service for college students enrolled at Fresno City College. The Ram Pantry believes that food insecurity should not be a barrier to success for students. The goal is to increase the graduation and course completion rate for our students.

Students can visit the Ram Pantry Monday-Friday from 10am-2pm, located downstairs in the Student Center. Students must be currently enrolled, provide their student ID number, and bring their own bag in order to access Ram Pantry Services.



A variety of food trucks are available on campus Monday through Thursday from 11:00 a.m. – 6:00 p.m. at three locations on campus to serve students, faculty and staff each semester.

## Health Services

The Health Services office is located in the Student Services Building, room 112.

Health services available to Fresno City College students include confidential health counseling, health education, screening tests, emergency first aid, assistance in obtaining medical care, limited immunizations and HIV and TB skin testing.

In addition to the above mentioned services, accident insurance coverage is available to students injured while on campus or at school-sponsored and supervised events. Call (559) 442-8268 for more information.

## Housing Information

A list of housing accommodations in private homes and local apartments for students may be obtained by contacting the Student Activities Office. The college assumes no responsibility for contracts made between landlords and students. Call (559) 443-8688 for more information.

## Learning Resources Center (LRC)

The college Learning Resources Center (LRC), located on the south side of the campus, houses all of the supplemental learning resources for faculty and students. The LRC includes the Library, Media Center, Tutorial Center, Student Success Computer Lab, Disabled Students Programs and Services High Tech Computer Lab, and a distance learning classroom. Additionally, the Teaching and Learning Center, Assessment Center and the Career Employment Center are housed in the LRC.

All services are available online and face-to-face. Up-to-date information about all of the LRC services can be found on the web site. Resources and information about LRC services can also be found in the Student Success Class or the Student Support Hub located on the student Canvas dashboard.

## Library

The college Library provides improved Wi-Fi access and space for studying and collaborating with classmates, including a 270-seat reference room, a 100-seat periodicals and reserves room, and a 100-seat reading and open stack room. The Library houses more than 60,000 print books and approximately 100 periodicals and newspapers, and provides

access to more than 25,000 ebooks and 75 online research databases that include streaming audio and video.

The Library has a 30-station computer lab equipped with internet access and standard software. There are a limited number of audiovisual materials, such as audiobooks, CDs, and DVDs that can be checked out. Black & white and color copiers and printers are available for a small fee. The Library has ADA accessible workstations and equipment.

Students can also book an appointment with a Librarian for research assistance, check out a laptop, iPad, or calculator, access a required textbook in the Reserve Collection, use a computer or just have a quiet study space. Librarians and Library staff are always available to provide individual assistance in the use of all the learning resources in the library. Librarians can be contacted at the Reference Desk, through online chat, texting, and email at <https://www.fresnocitycollege.edu/academics/library/index.html>, or by phone at (559) 442-8204.

## Tutorial Services LI-134

The Tutorial Center offers free drop-in learning assistance in all subject areas and academic success strategies. Peer tutors are faculty recommended and assist students in achieving their personal and academic goals. Tutoring schedules vary from course to course so students should check tutor availability with the Tutorial Center receptionist. For more information, go to <https://www.fresnocitycollege.edu/academics/tutoring/tutorial-center.html>, log into Canvas at <https://scccd.instructure.com/courses/14521/pages/general-online-tutoring>, or call (559) 442-8209.

## Writing and Reading Center (WRC)

The WRC assists students with any writing or reading assignment for any class at any stage in the development process. Trained tutors provide a friendly, supportive atmosphere for all students. Students can drop-in or make an appointment. A limited number of computers are also available. The WRC is located in the West Wing of the Library and provides access to a librarian for assistance in research for college papers. Limited free printing is available for any classroom assignments for which tutoring is provided when on campus. Find the WRC on Zoom at <https://cccconfer.zoom.us/j/7446311546#success>, log into Canvas at <https://scccd.instructure.com/courses/14521/pages/writing-and-reading-center>, or call (559) 332-3669 or (559) 442-4600, ext. 8188.

## Math Support Center

The Math Support Center provides a variety of services for students seeking assistance with their math classes. Experienced math tutors help students learn foundational skills as well as build a comprehensive understanding of math and

its relationship to real-world situations. The Math Center is located within the Tutorial Center and provides group, drop-in, and embedded tutors for many math classes. For more information on which math classes have embedded tutors, go to <https://www.fresnocitycollege.edu/academics/tutoring/math-support-center.html>. Find the Math Support Center on Zoom at <https://www.fresnocitycollege.edu/academics/tutoring/math-support-center.html>, log into Canvas at <https://scccd.instructure.com/courses/14521/pages/math-support-center>, or call (559) 442-8209.

### Extending the Class (ETC)

ETC provides class-specific study and review sessions led by a student who has recently taken the class from the same instructor and received a high final course grade. Within their ETC sessions, students actively engage with the material through group work and student-to-student interaction. ETC leaders are assigned to specific classes. Check with your instructor to see if you have an ETC leader in your class or find a list of course sections and assigned peer leaders at <https://www.fresnocitycollege.edu/academics/tutoring/extending-the-class.html>. For more information, log into Canvas at <https://scccd.instructure.com/courses/14521/pages/etc>, or call (559) 442-8216.

### PASS English Support Center LI-142

The PASS English Support Center provides experienced peer leaders/tutors for supplemental instruction and tutoring for English, EMLS (ESL), linguistics, and literature through group and individual sessions in the face-to-face and online environment. Limited free printing is available for classroom assignments for English, EMLS, linguistics, and literature students. Find the Center on Zoom at <https://cccconfer.zoom.us/j/4917290754#success>, or log into Canvas at <https://scccd.instructure.com/courses/14521/pages/pass-online-tutoring>. For more information, call (559) 549-7229 or (559) 442-4600 ext. 8153.

### Academic Computer Lab LI-118

The Academic Computer Lab has over 70 computers for all Internet and research needs. Some computers are loaded with course specific software. Tutoring assistance with computer software and applications is provided. Copying and printing services are available for a small fee. For more information, go to <https://www.fresnocitycollege.edu/academics/tutoring/tutorial-center.html>, log into Canvas at <https://scccd.instructure.com/courses/14521/pages/general-online-tutoring>, or call (559) 442-8209.

### Career Employment Center LI-147

The Career Employment Center (CEC) provides assistance with career assessments and planning, as well as conducting a job search. Services include career assessments,

career counseling, resume writing, job listings, employment advising, job search workshops, on-campus interviews with employers, and job fairs.

The CEC also provides services for employers who are interested in listing job openings through the online job posting board, Jobspeaker. For more information please call (559) 442-8294 or visit our website at <https://www.fresnocitycollege.edu/campus-life/career-and-employment-center.html>.

### Lost and Found

A lost and found department is maintained in the District Police Department, located on the east side of the campus on the corner of Weldon and Calaveras.

### Psychological Services

The goal of Psychological Services is to assist students who experience interpersonal or personal difficulties during their college stay so they can remain effective in their educational pursuit. Psychological counseling is available for a variety of problems, including issues stemming from:

- Adjustment to college life
- Depression and anxiety
- Relationship and communication skills
- Stress and anger management
- Mental illness
- Substance abuse
- Eating disorders

Psychological Services are located above the bookstore, Room 216, (559) 443-8687

### Public Information

The Public Information Office provides on- and off-campus public relations, marketing and promotion for the college. All advertising, media relations and sports information are the responsibility of the Public Information Office. Brochures, class schedules, the college catalog, press releases, videos, sports programs, and the college web site are all produced by the Public Information Office.

The Public Information Office also reviews all publications produced by other Fresno City College campus offices prior to on- or off-campus printing.

### Photo and Videotape Policy

Fresno City College takes photos and videotapes students throughout the year. These images often include students in classrooms, study areas, athletic events, etc. Fresno City College reserves the right to use these photographs as a part of its publicity and marketing efforts. Students who enroll

at Fresno City College do so with the understanding that these photographs might include them and might be used in college publications, both printed and electronic, and for publicity.

## Special Student Programs

### IDILE Program

Fresno City College's IDILE Program is designed to enhance the leadership skills of all students, with emphasis on African Americans, while helping them develop the self-confidence to succeed in the post-secondary education experience.

IDILE (pronounced "e dee lay") is a word borrowed from the African Yoruba Tribe that means "the root or source of the family." The nurturing and mentoring approach taken by the specially trained counselor and instructors committed to helping students succeed at Fresno City College accurately reflects and reinforces the definition of the program's moniker. The program provides opportunities for the students to build camaraderie with peers and develop lasting relationships with mentors. To obtain additional information about the IDILE program, call (559) 442-4600, ext. 8643.

### Puente Project

The Puente Project at Fresno City College provides students with writing or math instruction, sustained academic counseling, and mentoring by professionals from the community. Students participate in the program for three consecutive semesters. The program consists of two cohorts. The first cohort consists of English 1A, English 205, Counseling 43 and Chicano Latino Studies 11 during the first semester; English 3 and Counseling 54 during their second semester. The second cohort consists of Mathematics 3A, Mathematics 205, and Counseling 43 during the first semester; Mathematics 4A and Counseling 54 during the second semester. Both cohorts will have continued counseling and program activities during the third semester. The course content of the Puente classes has a Chicano/Latino emphasis. Throughout the program, Puente students also maintain contact with their assigned Puente mentor.

The purpose of the Puente Project is to increase persistence, degree completion and the number of Fresno City College Latinx students who transfer to four year colleges and universities. Puente students participate in extra-curricular activities and field trips that promote transfer opportunities. Success at Fresno City College and the continued pursuit of higher education is greatly emphasized. The Puente Project is open to all students. For information, call (559) 442-4600, ext. 8628 or email: [graciela.ramirez@fresnocitycollege.edu](mailto:graciela.ramirez@fresnocitycollege.edu).

## Resources for American Indian Needs (RAIN)

The RAIN Program is a learning community designed to promote, inspire and guide students upon entry, duration, and completion of their academic goals. The program purpose is to provide a support system for American Indian and indigenous people of the Americas, but is open to all students. Students will improve study skills and obtain tools for successful transition into college and/or vocational training opportunities. A collaborative atmosphere will be provided in which students will become a valued voice and member of our student population while maintaining their individuality. The RAIN Program provides the following areas of service:

- Academic Counseling/Transfer Assistance
- Peer Group Support
- Academic Tutoring for Success in Learning
- Financial Aid Assistance/Scholarships
- Career Exploration
- American Indian Program Activities
- Field trips (college campus tours)

To be eligible for the RAIN Program students must meet general admission requirements as outlined by Fresno City College (FCC) or be a current matriculated FCC student, participate in all activities sponsored by the program, and have an interest in obtaining a certificate, degree, or transfer to a four-year university or institution. The program is open to all students who desire to contribute, explore, and gain an understanding of the American Indian culture. The RAIN Program is a three-semester academic cohort. The student will enroll into an English (1A), American Indian Studies (31, 32, 34, or 35) and Counseling (150) course along with other major/elective courses appropriate for their area of study. The following semester will be similar, focusing on the appropriate level of English and/or Mathematics, American Indian Studies (31, 32, 34 or 35) and Counseling (54). The third semester will provide counseling follow-up services along with other appropriate major/elective coursework for the student's area of study. The Resources for American Indian Needs (RAIN) learning community program is in alignment with the FCC Student Equity Plan, which enables accessibility and support services for all American Indian/Alaska Native students to further prevent disproportionate transfer, degree, and certificate completion. For an application or more information, please contact Alexandra Gonzales at (559) 443-8564 or email at [alexandra.gonzales@fresnocitycollege.edu](mailto:alexandra.gonzales@fresnocitycollege.edu).

### Strengthening Young Men by Academic Achievement (SYMBAA)

The SYMBAA program, with emphasis on the African American male experience, assists students in achieving success through a coordinated program of courses and support. The program develops work habits and study skills and provides the education tools to be successful. For more information, call (559) 442-4600, ext. 2241.

### USEAA Academic Program

USEAA (pronounced “you see ah” and stands for United Southeast Asian American) has a Southeast Asian emphasis and is an academic program established since 1999. The program integrates courses in English, Asian-American Studies, and provides counseling services in a learning community environment. The goals of USEAA is to provide support and a sense of connection to the campus for students so they can persist to work towards their goal of completion and/or transfer. Students also to participate in activities, a mentoring program, and engage in community events to enrich their academic experience.

Enrollment is open to all students who meet program eligibility and can adhere with program requirements. The program is comprised of counselors and faculty dedicated to help students excel and succeed. The office is located in the Old Administration Building (OAB), 2nd floor room 272. For more information, please contact us at (559) 442-8226, extension 8639 or Kami Thepphavong, Program Coordinator, at (559) 442-8226, extension 8608 or email: [kami.thepphavong@fresnocitycollege.edu](mailto:kami.thepphavong@fresnocitycollege.edu).

### TRIO Programs

In commitment to providing educational opportunity for all citizens, Fresno City College has been awarded three programs fully funded by the U.S. Department of Education TRIO programs. These programs assist low-income, first generation students to enter college, graduate and move on to participate more fully and rewardingly in America’s economic and social life. The Upward Bound program serves high school students to prepare them for post-secondary education. The Student Support Services Program (SSSP) serves college students at FCC.

### Student Support Services Program (SSSP)

SSSP serves 160 FCC first generation, low income and disabled students to assure retention, graduation and/or transfer to a four-year college in a timely manner. SSSP provides advising, career planning, financial aid advising, transfer assistance, cultural events, college campus tours and lots of encouragement. Information and applications are above the bookstore in room SC-216, (559) 443-8689.

### Student Support Services Career Technology Education in Science, Technology, Engineering, and Mathematics Program (SSS CTE-STEM)

SSS CTE-STEM serves 120 FCC first generation, low income and disabled students in CTE-STEM programs pursuing Applied Technology or Pre-Allied Health Majors in order to assure retention, graduation and/or transfer to a four-year college in a timely manner. SSS CTE-STEM provides advising, career planning, financial aid advising, transfer assistance, cultural events, college campus tours and lots of encouragement. Information and applications are available at <https://www.fresnocitycollege.edu/student-services/programs/trio-cte-stem.html>, or call (559) 492-9484.

### Upward Bound Program

The FCC Upward Bound program is an intensive pre-college enrichment program designed to help first generation, economically disadvantaged high-school students improve their academic performance, and prepare for college. The long term goal is to pursue careers that require a bachelors’ degree or higher. The program provides tutorial and instructional sessions conducted at partnering high schools, FCC Saturday Empowerment Sessions, and FCC Summer School. Upward Bound program office is located in SC-216, (559) 443-8593.

### Telephone and Mail Services

Telephone calls will not be transmitted to students. In cases of extreme emergencies, please call the District Police Department. Mail should not be addressed to students in care of the college.

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# STUDENT ACTIVITIES

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*The Office of Student Activities at Fresno City College offers students the opportunity to participate in student government, student clubs and organizations, campus activities, and social and cultural events. Participation in campus life has been shown to have a positive impact on student success and leadership development.*

## Associated Students

The Associated Students participate in the governing of the college community through its legislative body, the Student Senate. The Senate is composed of the student body president, vice president, treasurer, ICC chair, student trustee and 16 senators.

The following student clubs and organizations constitute the Inter-Club Council (ICC) and contribute actively to the growth and social life at Fresno City College:

- Alpha Gamma Sigma (AGS)
- All of Us or None
- Allied-Health Professionals Club
- American Institute of Architects (AIA)
- American Sign Language Club (ASL)
- Anime Club
- Architecture Club
- Art for Community Transformation (ACT)
- Asian American Club
- Bonsai Club
- CalWORKS Student Association
- Collegiate Entrepreneurs Organization (CEO)
- Computer Aided Drafting & Design (CADD) Club
- Dead Film Society
- Democratic Club
- Early Childhood Education & Educators Club (ECEE)
- Electrical Systems Technology Club (EST)
- EOPS Club
- FCC Catholic Student Association
- Fresno City Guitar Society
- History Club
- Hmong American Student Association
- Human Services Student Association
- I Will Ride
- IDILE
- International Students Association
- Kinesiology Club
- Lambda Alpha Epsilon (LAE)
- Law Pathway Club
- LGBTQ+ Spectrum
- Literature & Arts Society
- M.E.Ch.A.
- Music Teachers National Association
- Native American Intertribal Students Association (NAISA)
- New Media Club
- Nutrition & Culinary Club
- Pan Afrikan Student Union (PASU)
- Philosophy Club
- Pre-Health Society
- Puente Club
- RN Pinning Committee
- SADHA
- Science & Engineering Club
- Student Association for Sustainable Action
- Student Nurses' Association (SNA)
- Student Paralegal Association (SPA)
- Student Success Club
- Sustainable Action
- S.Y.M.B.A.A.
- Tabletop Gaming Club (Otaku)
- Teachers of Tomorrow
- UMOJA Community Club
- Veterans Club
- Volunteer Club

## Organization of New Clubs

To be officially recognized, a club must have a minimum of 15 participating members, a program of approved activities, regular meetings, an approved constitution and a full-time faculty sponsor. Those considering organizing a new club must consult and plan with the Director of Student Activities.

## Social Activities

The social life of students center around the calendar of activities hosted by the Associated Students' clubs and organizations. Many activities are held in the Student Lounge and students are encouraged to participate to complement their classroom learning.

## Athletics

Fresno City College offers students the opportunity for intercollegiate activity in a wide variety of sports. Competitive teams found in both men's and women's athletic programs include basketball, cross country, golf, soccer, tennis, and track and field. Volleyball, beach volleyball, water polo, badminton, softball, swimming and diving are offered for women only. Football, baseball and wrestling are offered for men only. A physical examination by the team physician and a statement of existing medical insurance are required before participation in collegiate sports.

Fresno City College is a member of the Central Valley Conference in most sports, and competes in the Big 8 Conference for tennis and water polo, the Coast Conference for beach volleyball, wrestling, and badminton, and the Valley Conference for football.

Athletics at Fresno City College, as with all California community colleges, is governed by the general regulations of the State Community College Athletic Code as well as the specific regulations of the conferences in which Fresno City College holds membership.



## Publications

### About Ourselves

*About Ourselves* is an annual publication featuring exceptional student writing sponsored by faculty in the Preparatory English Department. To be eligible for publication, you must be a student in one of the Developmental or Preparatory English classes.

### The FCC Review

*The FCC Review* is an annual literary and arts journal that publishes Fresno City College student poetry, fiction, non-fiction prose, photography, and art work. Interested students may contact the Humanities Division Office.

### The Rampage

The college offers students opportunities to work on publications through the production of the college newspaper, *The Rampage*.

*The Rampage* is an award-winning newspaper published bi-weekly at Fresno City College by students of the college's journalism courses. *The Rampage* is a member of the Journalism Association of Community Colleges, an organization that has acknowledged the newspaper's "general excellence" in recent years, along with recognizing individual students' contributions with awards in numerous categories. Former students of the college's journalism program have transferred to various universities and many currently work in newsrooms throughout the nation.

## Forensics

Fresno City College offers instruction and travel in competitive speech and debate. The college's forensics team traditionally ranks in the top ten among all colleges in the United States, both four-year and community colleges. Five Fresno City College teams have been named national champions. Students compete in a variety of debate and individual events. Team members travel to tournaments throughout the western United States. Students may earn units for participation in the forensics program by enrolling in Communication 26. For more information, contact the Fine, Performing, and Communication Arts Division Office.

## Museum of Anthropology

The Social Sciences Division is home to the Fresno City College Anthropology Museum and Archaeological Curation Facility. Located in SO-128, the museum presents exhibits about human culture drawn from both its ethnographic and archaeological collections. The museum is free to students, faculty, staff, and community members. Fresno City College students also have the opportunity to participate in museum operation, learn about exhibit development, and the curation of museum collections. Tours and activities at the museum are led by FCC student docents. For hours of operation or to arrange a tour, please contact Beth Wengerd at (559) 442-8210 ext. 8343. For information about exhibits and collections, please contact Dr. German Loffler at (559) 442-8210 ext. 8360.

## Music Activities

Music organizations at Fresno City College have dual functions: as courses for music credit and as college musical activities groups which perform for a variety of college and community events. The concert band; college choir; symphony orchestra; city singers; jazz bands; and woodwind, brass, piano, string, percussion, and vocal ensembles present recitals and concerts both on- and off-campus.

All performing groups are open to any student who has the musical ability and experience.

## Theatre Arts and Dance

Theatre Arts and Dance students have the opportunity to participate in four major productions, two dance concerts, and the very popular New Wrinkles Senior Citizens Showcase each year. All of the productions are staged in the Fresno City College Theatre, which includes a 430-seat main stage and a studio theatre with flexible seating for up to 100.

In addition to regular course work, the department annually participates in the Kennedy Center/American College Theatre Festival and The American Dance Theatre Festival. The department is also active with United States Institute of Theatre Technology.






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# SPECIAL AREAS OF STUDY

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## Allied Health

The Allied Health, Physical Education, and Athletics Division offers courses for fulfilling requirements in a number of occupational programs; such as, autism technician, dental hygiene, health information technology, kinesiology, medical assistant-clinician, public health, radiologic technology, registered nursing, respiratory care practitioner, and sports medicine.

Students complete the appropriate Academic Summary Form for consideration for acceptance into most health care career programs. Based on high demand, the Dental Hygiene, Radiologic Technology, and Respiratory Care programs select students for admission through a lottery process. Registered Nursing also utilizes a multi-criteria screening process and lottery for admission. Students must also meet the normal admission requirements as fully matriculated regular students at Fresno City College.

## Career & Technology Center

Located off Fresno City College's main campus, the Career & Technology Center offers a learning environment for practical hands-on education. Year-round registration is in effect for a variety of noncredit, open-entry classes. Counseling and job placement services are available.

CTC is located at 2930 E. Annadale Avenue, Fresno. For more information, go to [www.fresnocitycollege.edu/ctc](http://www.fresnocitycollege.edu/ctc), or call (559) 265-5700.

## AUTOMOTIVE COLLISION REPAIR (ACRCTC)

371 FUNDAMENTALS OF WELDING TECHNOLOGY AND WORKING SHEET METAL  
2.78 lecture hours, 13.89 lab hours,  
(300 total hours), (Repeats = 3), (Pass/No Pass),  
(Open Entry/Open Exit)  
PREREQUISITE: None.

Theory and practice in MIG welding, oxyacetylene welding, steel rod, brazing rod, plasma cutter, metal shrinking, working sheet metal, welded panel replacement, restoring corrosion protection, hand tool technology, shop safety and efficiency, job success and ASE certification.

372 BODY WORK TECHNOLOGY  
2.78 lecture hours, 13.89 lab hours,  
(300 total hours), (Repeats = 3), (Pass/No Pass),  
(Open Entry/Open Exit)  
PREREQUISITE: None.

Collision repair introductions and careers. Includes estimating repair costs, vehicle construction and power tool technology, service specification and measurements, using body filler, doing hood, bumper, fender, lid, door, roof, and glass service. Looking at restraint system operation, passenger compartment, body/frame measurement, and unibody/frame realignment.

373 AUTOMOTIVE REFINISHING TECHNOLOGY  
2.78 lecture hours, 13.89 lab hours,  
(300 total hours), (Repeats = 3), (Pass/No Pass),  
(Open Entry/Open Exit)  
PREREQUISITE: None.

Compressed air technology, refinishing materials and fasteners, repairing plastics, refinishing equipment technology, vehicle surface preparation and masking, refinishing procedures, color matching and custom painting, and paint problems and final detailing.



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**INDUSTRIAL TRAINING (ITCTC)**


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**371 WAREHOUSE AND DISTRIBUTION CAREERS**

2 lecture hours, 3 lab hours, (90 total hours),  
(Repeats = 3), (Open Entry/Open Exit), (Formerly  
ITVTC 71)

COREQUISITE: Industrial Training CTC 372.

Forklift and electric pallet jack safety and operation skills necessary for employment, inventory and warehouse procedures utilizing computer based program resulting in logistics certification, basic and applied mathematics, basic computer, reading and writing practice, warehouse equipment like strapping and manual pallet jack.

**372 WAREHOUSE AND DISTRIBUTION CAREERS**

2 lecture hours, 3 lab hours, (90 total hours),  
(Open Entry/Open Exit), (Repeats = 3)

COREQUISITE: Industrial Training CTC 371.

Provides forklift operation and safety skills necessary for employment in warehouse environment. Warehouse inventory and processing procedures utilizing computer based related programs, mathematics and proper packaging techniques to industry standards.

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**MAINTENANCE MECHANIC (MMCTC)**


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**370 FUNDAMENTALS OF WELDING AND MACHINE SHOP**

5.55 lecture hours, 11.11 lab hours,  
(300 total hours), (Repeats = 3), (Formerly  
MMVTC 70)

Basic gas, arc, MIG, TIG (mild steel only). Precision measurement, hand tools, engine lathe, drilling, milling.

**371 FUNDAMENTALS OF HYDRAULICS AND PNEUMATICS**

5.55 lecture hours, 11.11 lab hours, (300 total  
hours), (Repeats = 3), (Formerly  
MMVTC 71)

Hydraulic and pneumatic principles, pumps, actuators, valves, schematics, operating systems.

**372 ELECTRICAL FUNDAMENTALS**

5.55 lecture hours, 11.11 lab hours, (300 total  
hours), (Repeats = 3), (Open Entry/Open Exit),  
(Formerly MMVTC 72)

Electrical principles, AC/DC circuits, motors, motor starters, relays, wiring, troubleshooting, schematic reading, test instruments, variable speed drives.

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**MANUFACTURING MECHANIC**


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(MFGMCTC)

**351 INTRODUCTION TO MANUFACTURING**

0.5 lecture hours, (9 hours), (Pass/No Pass)

PREREQUISITE: None.

Career in manufacturing, local job market, pay scales; basic mechanical skills required throughout the industrial areas; safety and safe working environment will be stressed.

**352A TRADE MATHEMATICS**

1 lecture hour, (18 hours), (Pass/No Pass)

PREREQUISITE: None.

Industrial technology and trade-related math. The use of metric system of weights and measures, arithmetic application of integers and fractions, along with ruler and caliper readings commonly used in manufacturing trades.

**352B PROGRAMMABLE CONTROLLERS**

0.25 lecture hours, 0.75 lab hours,  
(18 hours), (Pass/No Pass)

PREREQUISITE: None.

An introduction to the equipment and peripheral devices used to interface with industrial controlling devices.

**352C JOB PREPARATION**

0.25 lecture hour, 0.75 lab hour (18 hours), (Pass/  
No Pass)

PREREQUISITE: None.

Preparing resumes, portfolios, and improving employment-seeking skills.

**352D TECHNICAL REPORT WRITING**

0.25 lecture hour, 0.75 lab hour (18 hours), (Pass/  
No Pass)

PREREQUISITE: None.

Identify and write various manufacturing types of reports; analyze data, and record data that are associated with production work.

**353A FLUID POWER FUNDAMENTALS**

0.5 lecture hours, (9 hours),  
(Pass/No Pass)

PREREQUISITE: None.

Fundamentals of fluid power; physics principles pertaining to fluid power; various differences in hydraulics and pneumatics; characteristics of liquids and gases.

**353B PNEUMATIC FUNDAMENTALS**

0.25 lecture hours, 0.75 lab hours,  
(18 hours), (Pass/No Pass)

PREREQUISITE: None.

Theory and application in the operation, service, and function of hydraulic systems including design and application of systems in industrial environments.

**353C HYDRAULIC FUNDAMENTALS**

0.25 lecture hours, 0.75 lab hours,  
(18 hours), (Pass/No Pass)

PREREQUISITE: None.

Theory and application in the operation, service, and function of hydraulic systems including design and application of systems in industrial environments.

**354A POWER TRANSMISSION**

0.5 lecture hours, (9 hours),  
(Pass/No Pass)

PREREQUISITE: None.

Fundamental concepts of power transmission. Application of gears, belts, chains, and pulleys will be discussed.

**354B WELDING FUNDAMENTALS**

0.25 lecture hours, 2.25 lab hours,  
(45 hours), (Pass/No Pass)

PREREQUISITE: None.

Basic metallurgy and properties of metals, oxyacetylene welding and cutting processes, arc welding, and safety within the work environment.

**354C ELECTRICAL FUNDAMENTALS**

0.25 lecture hours, 2.25 lab hours,  
(45 hours), (Pass/No Pass)

PREREQUISITE: None.

Fundamentals of electrical theory, AC circuitry, as well as an instruction to motor control.

## Developmental Education Program

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The Developmental Education Program is designed to prepare students for degree credit instruction. The program is recommended for students who are assessed as not meeting the skills requisites for Mathematics 102 or 103 or English 125 and 126. It is not recommended for students who are learning English as a second language or who have identified learning disabilities. Course credits earned in the program

do not count for the associate degree but do count for determining full- or part-time student status (i.e., workload credit). The particular courses a student takes depend upon the individual needs of the student.

### Entrance into the Program

Assessment of academic preparation for college-level instruction is recommended for all students entering Fresno City College. It is required for all students wanting to enroll in English and mathematics courses.

Entry into the Developmental Education Program depends upon English and math placement testing results. When placement test scores in reading are 15 and below or in English written expression are 19 and below or in mathematics are 24 and below, appropriate developmental education program courses in English or math are recommended.

Other courses in the program supplement instruction in developmental education English and mathematics courses. For example, exploratory courses in selected academic departments reinforce the reading and writing skills being learned in the developmental English courses.

### Benefits of the Program

Developmental Education students enjoy the following benefits:

- Development of reading, writing, and computation skills sufficient to succeed in college-level instruction
- Curriculum tailored to the individual's particular needs so that courses taken are consistent with one's background and experience
- Development of beginning level of computer literacy
- Opportunity to review previously learned material
- Emphasis on helping students succeed at the college
- Specially trained teachers and counselors who understand and are sensitive to student worries and fears

## English for Multi-Lingual Students (EMLS) Program

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### *Purpose*

The EMLS program is designed for students whose native language is not English. The program assists students to acquire the necessary English language skills to succeed in AA/AS degree programs, vocational programs and university transfer courses offered at Fresno City College.

### *Description*

There are four levels of EMLS in the program: low-intermediate (EMLS 263RW/363RW), intermediate (EMLS 284RW/384RW), high-intermediate (EMLS 285RW/385RW), and advanced (EMLS 180RW). Additionally, EMLS offers courses in pronunciation and accent reduction (EMLS 270/370) and listening and speaking (EMLS 264LS/364LS).

### Placement

Initial placement in EMLS course offerings is the result of language testing and other criteria. This test is administered by the Counseling Center at the same time as the English Placement Test. Please call (559) 442-8282 for dates and times.

## Fire Academy

The Fire Academy curriculum is designed to prepare students for the occupation of Fire Fighting and provides extensive hands-on training required by many fire agencies for entry-level employment as a firefighter.

Throughout the Fire Academy, there is a strong emphasis on physical training and manipulative testing. Cadets are required to pass a comprehensive physical fitness exam to successfully complete the academy. The physical fitness training emphasizes endurance as well as strength and technique.

The Fire Academy is offered twice a year in the Spring and Summer semesters; both are 22 weeks long. The schedule is Monday through Friday, 6 a.m. to 5 p.m. For more information, go to [www.fresnocitycollege.edu/fireacademy](http://www.fresnocitycollege.edu/fireacademy).

## Honors Program

The Leon S. Peters Honors Program at Fresno City College provides an enriched educational experience to recognize and meet the needs of academically excellent students. Students who qualify, and are accepted to enter the Honors Program, benefit from the experience regardless of major, because of a specially selected curriculum that is set within the framework of the transfer program of all University and California State University campuses. Honors courses are innovative and reflect the instructors' interest in and commitment to the students' academic, intellectual, cultural, and social development.

### Benefits

Honors students enjoy the following benefits:

Special sections of regular classes

- Special sections of regular classes
- Specially selected, experienced, and highly qualified faculty
- Faculty mentors
- Registration, counseling, and transfer assistance
- Scholarships
- Priority acceptance at a University of California or California State University campus
- Opportunities to participate in cultural, social, and intellectually-stimulating activities
- Recognition on transcripts

## Requirements for Consideration of Acceptance

Requirements for Acceptance for high school seniors:

- G.P.A. of 3.50 (4.00 scale), or
- G.P.A. ranking within the top 25th percentile of your high school class, or
- Combined scores of 1200 on the SAT or a composite score of 24 on the ACT

Requirements for Acceptance for current college students who have completed at least 12 transfer-level college units:

- College G.P.A. of 3.30

Application requirements include:

- Two letters of recommendation, and
- Superior performance on an essay.

For details regarding the Honors Program, please refer to page 180 in this catalog or consult with Honors Program staff by emailing [honors@fresnocitycollege.edu](mailto:honors@fresnocitycollege.edu).

## Police Academy

Fresno City College's State Center Regional Training Facility is a Public Safety Training Academy specializing in the training of public safety personnel. All police classes are certified by the Commission on Peace Officer Standards and Training. All correctional/probation classes are certified by the Board of Correction's Standards for Training for Corrections. All Police Academy courses are "For Credit" and not transferable.

- Advanced Technical Courses—classes designed for in-service personnel already employed by a public safety agency.
- Correctional Academy and Probation Core Courses—offered in conjunction with local agencies and is required to work as a correctional officer, probation officer, or juvenile counselor for a local agency.
- Dispatcher Academy—designed for those who have been hired as, or want to become a complaint/dispatcher for a public safety agency.
- Regular Basic Course-Intensive and Extended Format—required in order to be hired as a full-time peace officer in California. The basic academy is offered in three different formats.
- Regular Basic Course -Modular Format—designed for those who want to become reserve police officers or a reserve deputy sheriff. Training modules qualify the student to become a Level III, II, or I reserve officer. Completion of all three levels satisfies the requirements for the Regular Basic Course

For more information, go to [www.fresnocitycollege.edu/policeacademy](http://www.fresnocitycollege.edu/policeacademy).

## ROTC Studies – U.S. Army and U.S. Air Force

Fresno City College students may register for classes designed for those who wish to explore becoming an officer in the United States Army or the United States Air Force. These classes are conducted at California State University, Fresno and at Fresno City College. Students must be in good academic standing and be enrolled at Fresno City College. Interested students should contact the Fresno City College Admissions Office, ST-111, to obtain more information on how to register for these classes.

Fresno City College will accept the units as general elective units toward the AA or AS degree. The freshman and sophomore courses are non-obligation and allow students to experience what the Air Force or Army might be like should they decide to continue with the program and earn a commission. A number of scholarships are available through both programs.

Consult the Military Studies Department, (559) 244-2638, at Fresno City College or the Aerospace Studies Department, (559) 278-2593, at California State University, Fresno for information on courses offered and class meeting times.

## Veterans Services

Veterans Services, located in Building A, provides assistance to veterans and their dependents. Open from 8 a.m. to 5 p.m. Monday through Friday, the staff will assist veterans and dependents in applying for educational benefits. Counseling and academic advising are available in the Counseling Center.

### *Educational Benefits for Veterans and Dependents*

The following students may be eligible for veterans' educational benefits:

1. Veterans who were separated from active duty with the armed forces within the past 10 years.
2. Spouses or children (under 26 years of age) of veterans who were either killed while serving in the armed forces or were totally and permanently disabled while on active duty.
3. Widows or children of veterans who were residents of California at the time of entering the service and have a 50 percent disability may qualify for Cal Vet benefits.
4. Persons in one of the armed forces reserve programs who meet the minimum requirements of a special benefit program may be entitled to receive some educational and/or financial assistance.

5. Post 9-11 benefits will pay eligible individuals:
  - Tuition and fees directly to the school, not to exceed the maximum in-state tuition and fees at a public Institution of Higher Learning.
  - A monthly housing allowance based on the Basic Allowance for Housing for an E-5 with dependents at the location of the school.
  - An annual books and supplies stipend of \$1,000 paid proportionately based on enrollment.

Veterans are required to go on-line to learn more about this program in order to make an informed choice.

Further information may be obtained from Veterans Services, Building A, or from any Veterans Administration office.

### *Progress and Attendance Policies*

Veterans and eligible dependents are required to show satisfactory progress. Minimum standards, established by the college, require that all students comply with satisfactory progress policies.

The Veterans Administration will be notified of any veteran who has been dismissed for not making satisfactory progress. For further information, contact Veterans Services, Building A.

A veteran is entitled to receive pay up to the last day of attendance for a class for which a "W" entry grade has been assigned. The VA will require that the money be paid back for such classes if paid after the last day of attendance.

A veteran must state a declared major for the VA in order to maintain eligibility for veterans' benefits.

Veterans who have completed 45 units at Fresno City College and/or elsewhere must obtain a degree evaluation from the Admissions and Records Office. Applications for degree evaluations are to be completed online through WebAdvisor or in the Admissions and Records Office.

Veterans and eligible dependents have the responsibility to notify the Veterans Office whenever a change in program, address or dependents is made. All veterans/dependents are urged to contact the Veterans Office regularly in order to be aware of the various changes in VA rules and regulations which may occur during the school year.

### *Academic Limitations*

Veterans/dependents attending Fresno City College who have earned a degree and/or have attempted sixty (60) or more units can only be certified for those courses which are either required to complete their degree objective at Fresno City College or meet a prerequisite for that requirement. Except in those cases where vocational work experience is required for the degree being pursued by the veteran, veterans with 60 or more units may not be certified for it. Veterans enrolled in occupational work experience must be

engaged in work which is directly related to the veteran's major as declared with the VA. General work experience is not payable under any circumstances. Apprenticeship courses are payable under certain conditions. Also, veterans must enroll in and complete at least six units during the regular semester or two units during the summer session in order to be eligible for VA educational payments. Finally, a veteran may be certified to repeat a class for which a grade of "D" or better has been assigned only if the better grade is required as a prerequisite for the approved program.

### *Pending VA Payment Compliance*

In accordance with Title 38 US Code 3679 ( e ) Fresno City College adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post-9/11 G.I.Bill® or Vocational Rehabilitation & Employment (Ch. 31) benefits, while payment to the institution is pending from VA. Fresno City College will not:

- Prevent the student's enrollment;
- Assess a late penalty fee to the student;
- Require the student to secure alternative or additional funding;
- Deny the student access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the VA Certificate of Eligibility (COE);
- Submit completed certification request packet;
- Provide additional information needed to properly certify the enrollment as determined by School Certifying Official.

### *Veteran Exceptions to Out-of-State Tuition*

If you are an active duty member of the United States Military stationed in California, or are their dependent and can show the required documentation, you may qualify for a tuition exemption even if you do not otherwise qualify for California Resident status,

OR

AB13 and VACA Act: You may qualify for a tuition exemption from non-resident fees even if you do not otherwise qualify for California Resident status if:

- You are a discharged member of the United States Military eligible for benefits under the Montgomery GI Bill or Post-9/11 GI Bill;
  - o Or their spouse or child;
  - o Or the spouse or child of a deceased member of the United States Military using benefits under the Marine Gunnery Sergeant John David Fry Scholarship;

- And the service member's last active duty period lasted 90 days or longer;
- And it is within three years of the service member's last day of active duty;
- And you live in California.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <https://www.benefits.va.gov/gibill>.

## Work Experience (Cooperative) Education

The cooperation of Fresno City College, business, industry and the community makes it possible for students to earn elective credit toward a degree and/or a certificate of achievement through employment experience. For the satisfactory completion of the program of cooperative work experience education, the college will grant credit to a student in an amount not to exceed eight (8) units per semester for occupational/vocational work experience or one (1) to six (6) unit(s) per semester for general work experience. Students can earn no more than a total of 16 semester units of Cooperative Work Experience Education subject to the limitations as described below.

The Cooperative Work Experience Education Program can be an important motivating experience, especially for those who have had inadequate opportunities to learn about the working world. The students meet weekly with an instructor/coordinator who is well prepared professionally to assist in the development of job skills. The coordinator makes on-site job visitations at which time they confer with the student's supervisor. The student's work performance and progress is evaluated by both the coordinator and the supervisor.

### Types of Cooperative Work Experience

1. General work experience education is the supervised employment of students with the intent of assisting them to acquire desirable work habits, career awareness, and positive attitudes in jobs. The jobs held by students need not be related to their occupational goals or college program.
2. Occupational/vocational work experience education is the extension of occupational learning opportunities and career awareness for students through employment in the occupational fields for which their college programs or majors are designed.

## School Credit

For the satisfactory completion of all types of Cooperative Work Experience Education, students may earn up to a total of 16 semester credit hours, subject to the following limitations.

1. General work experience education: A maximum of six semester credit hours may be earned during the student's lifetime. All six credit hours can be taken in one enrollment period or spread out over multiple enrollment periods.
2. Occupational work experience education: A maximum of eight credit hours may be earned during an enrollment period in occupational work experience education.

Duplicate credit shall not be granted for concurrent enrollment in general work experience education and occupational/vocational work experience education. The amount of college credit earned by the student for cooperative work experience education is dependent upon the number of hours of work during the semester as follows:

One unit of credit for each 75 hours of paid work hours, or one unit of credit for each 60 hours of volunteer work hours.

## Transfer Credits

Students should review the catalog of the college to which they plan to transfer to determine the number of units of cooperative work experience that will transfer.

## Qualifications

In order to qualify for either the general or occupational/vocational Cooperative Work Experience Education Program, the student must be enrolled in at least one other course in addition to the work experience class throughout the semester. The student's supervisor must be located in the Fresno City College service area and be easily accessible to the instructor. During each semester enrolled in cooperative work experience, the student must attend the coordinating class for one hour per week.

In addition to the above requirements, students enrolling in occupational/vocational work experience courses must be employed in occupations which provide experience directly related to their occupational major. (Title 5, Division 6, Section 55250 of California Administrative Code.)

## The Enrollment Process

If students are interested in enrolling in cooperative work experience education or obtaining more information, they should contact one of the cooperative work experience instructors or a college counselor. Those students qualified to enroll will obtain authorization to register from the Work Experience Office in Admissions and Records. The occupational work experience courses are listed in the schedule under the various occupational subjects and are always designated by the 19 series, except for Art 19. General work experience courses are listed under Work Experience, General.

See catalog description of courses for further information.

Majors and areas of study in which students may currently obtain occupational/vocational work experience credit are:

- Accounting
- Allied Health
- Applied Technology
- Automotive Technology
- Business Administration
- Business & Technology
- Child Development
- Computer Information Technology
- Criminology
- Dental Assisting
- Education
- Fashion Merchandising
- Fire Technology
- Food Service Management
- Human Services
- Journalism
- Marketing
- Medical Assisting
- Paralegal
- Physical Education
- Recreation
- Registered Nursing

*Note: Actual class offerings vary by semester.*

# AREAS OF STUDY BY DIVISION

## ALLIED HEALTH, PHYSICAL EDUCATION, AND ATHLETICS DIVISION

Allied Health  
 Pre-Allied Health  
 Public Health Science for Transfer  
 Autism Technician  
 Dental Hygiene  
 Kinesiology  
 Kinesiology for Transfer  
 Health Information Technology  
 Medical Coding  
 Medical Assistant - Clinician  
 Nursing, Registered  
 Physical Education  
 Public Health  
 Radiologic Technology  
 Recreation  
 Recreation Leadership  
 Respiratory Care  
 Sports Medicine

## APPLIED TECHNOLOGY DIVISION

Administration of Justice/Police Academy  
 Basic Police Academy  
 Basic Supervisors  
 Juvenile Correctional Officer Core  
 Probation Core Course  
 Requalification Basic Course  
 Safety Dispatcher's Basic Course  
 Aerospace Studies  
 Applied Technology  
 Employment Essentials  
 Architecture  
 Basic Architectural Contract Document  
 Basic Architectural Design  
 Basic Architectural Office Practice  
 Basic Architectural Skills 1  
 Basic Architectural Skills 2  
 Basic Digital Architecture  
 Apprenticeship  
 Automotive Collision Repair Technology  
 Auto Collision Repair CTC  
 Automotive Technology  
 Alternative Fueled Vehicle  
 Diesel Technology  
 Hybrid Electric Vehicle  
 Auto Tech: GM ASEP

Chassis Technician  
 Chassis Technician I  
 Chassis Technician II  
 Emission Technician  
 Emission Technician I  
 Emission Technician II  
 Powertrain Technician  
 Powertrain Technician I  
 Powertrain Technician II  
 Computer Aided Drafting and Design  
 2D CAD Technician  
 3D CAD Technician  
 3D CAD/CAM  
 CAD Technician I  
 Computer Aided Manufacturing  
 Construction  
 Residential Construction  
 Residential Construction Wiring  
 Drafting  
 Electrical Systems Technology  
 Automation Control Technician  
 Biomedical Equipment Technician  
 Control Systems  
 Electrical Systems Technology  
 Electricity Fundamentals 1  
 Electricity Fundamentals 2  
 Electromechanical 1  
 Electromechanical 2  
 Facility Controls  
 Industrial Automation 1  
 Industrial Automation 2  
 Industrial Maintenance Technician  
 Introduction to Industrial Controls  
 Low Voltage  
 Network Security  
 Photovoltaics  
 Wireless Networks  
 Fire Technology  
 Basic Fire Academy  
 Emergency Medical Technician I  
 Emergency Medical Technician I, Refresher  
 Firefighter II  
 Paramedic  
 Graphic Communications  
 Digital Media Option  
 Digital Video Option  
 Graphic Design Option  
 Motion Graphics

Video Production  
 Heating, Ventilation, & Air Conditioning  
 HVAC Technology I  
 HVAC Technology II  
 Industrial Technology  
 Industrial Training, Warehouse and Distribution Careers  
 Maintenance Mechanic CTC  
 Manufacturing Mechanic CTC  
 Photography  
 Commercial Photography  
 Digital Photography  
 Fine Art Photography  
 Photojournalism  
 Professional Photography  
 Social Media Imaging  
 Welding Technology  
 Automated Welding Systems  
 Metal Fabrication Option  
 Multi-Process  
 Pipe and Structural Steel Certification  
 Welding and Fabrication Entrepreneurship  
 Welding Design and Fabrication

## BUSINESS DIVISION

Accounting  
 Computerized Accounting for the Workplace  
 Business Administration  
 21<sup>st</sup> Century Work Competencies  
 Entrepreneurial Ventures  
 Human Resources Management  
 Professional and Civic Behaviors  
 Retail Management  
 Business & Technology  
 Bookkeeping Fundamentals  
 Business Office English  
 Business Office Math Fundamentals  
 Clerical Training  
 Computer Applications Software  
 Medical Office Assistant  
 Microsoft Office Foundations  
 Microsoft Word  
 Office Professional — Executive Assistant Emphasis  
 Office Professional — Legal Office Emphasis



AA-T Associate in Arts  
for Transfer

AS-T Associate in Science  
for Transfer

AA Associate in Arts

AS Associate in Science

CA Certificate of  
Achievement

CC Certificate of  
Completion

C Certificate

Office Professional — Medical Office  
Emphasis  
Office Professional — One-Person  
Office Emphasis  
One-Person Office  
Business Management  
Business Finance and Accounting  
Business Finance and Investments  
Human Relations and Communications  
Human Resources and Relations  
Management and Supervision  
Personal Finance and Investments  
Small Business Management  
Computer Information Technology  
Android Application Developer  
Apple iOS Developer  
Cyber Technician Specialist  
Cybersecurity  
Computer Information Systems  
Information Security I  
Information Security II  
Microsoft Certified Specialist  
Networking/Computer Technician  
Preparation in Microsoft Office  
System Support Specialist  
Web Page Development Option  
Web Developer  
Decision Science  
Marketing  
Advertising  
Fashion Merchandising  
Personal Sales  
Retailing  
Paralegal  
FINE, PERFORMING, AND  
COMMUNICATION ARTS DIVISION  
Art  
Art History for Transfer  
Art Studio  
Communication  
Dance  
Film  
Journalism  
Music  
Theatre Arts  
HUMANITIES DIVISION  
English  
Composition  
Creative Writing  
Critical Thinking  
Literature  
Reading  
English for Multi-Lingual Students  
(EMLS)  
Vocational ESL

## Areas of Study by Division

Foreign Languages  
American Sign Language  
Armenian  
Chinese  
French  
German  
Hmong  
Japanese  
Portuguese  
Spanish  
Humanities  
Linguistics  
Philosophy  
MATH, SCIENCE, AND  
ENGINEERING DIVISION  
Astronomy  
Biology  
Botany  
Chemistry  
Computer Science  
Engineering: Civil  
Engineering: Computer Software  
Engineering: Electrical  
Engineering: Mechanical, Aerospace,  
and Manufacturing  
Environmental Studies  
Geography  
Geography for Transfer  
Geology  
Geology for Transfer  
Mathematics  
Natural Science  
Physical Science  
Physics  
SOCIAL SCIENCES DIVISION  
African-American Studies  
American Indian Studies  
American Studies  
Anthropology  
Asian-American Studies  
Chicano-Latino Studies  
Child Development  
Child Welfare  
Early Childhood Education  
Early Childhood Education for  
Transfer  
Early Intervention  
Early Intervention Assistant  
Family Child Care  
Infant Toddler Specialist  
Criminology  
Administration of Justice for  
Transfer  
Correctional Science Option  
Forensic Evidence Option

Law Enforcement Option  
Pre-Academy Training Option  
Culinary Arts  
Advanced  
Basic  
Intermediate  
Cultural Studies  
Dietetic Service Supervision  
Economics  
Economics for Transfer  
Education  
Early Childhood Paraprofessional  
Education Paraprofessional  
Elementary Teacher Education for  
Transfer  
Special Education Paraprofessional  
Food Services  
Food and Nutrition  
Food Service Management  
Global Studies  
Global Studies for Transfer  
History  
Human Services  
Alcohol and Drug Abuse Counseling  
Option  
Elder Care Human Services  
Pre-Social Work Option  
Social Work and Human Services for  
Transfer  
Law, Public Policy, and Society for  
Transfer  
Liberal Arts  
Military Science  
Political Science  
Pre-Law in Interdisciplinary Studies  
Psychology  
Social Justice Studies, Chicano Studies  
for Transfer  
Social Justice Studies, General for  
Transfer  
Sociology  
Women's Studies  
OTHER  
Counseling  
General Work Experience  
Developmental Education Program  
Developmental Services  
Honors Studies  
Individual Study  
Laboratory Assistant  
Library Skills  
Library Technology  
Ornamental Horticulture Skills  
Special Studies  
Supervised Tutoring



## Associate Degree and Certificate Programs

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Accounting	2010	AS, CA	Accounting	133
Accounting, Computerized, Accounting for the Workplace	2056	CA	Accounting	134
Administration of Justice, Basic Police Academy	8921	CA	Police Academy	134
Administration of Justice, Juvenile Correctional Officer Core	8943	C	Police Academy	135
Administration of Justice, Post Basic Supervisor	8927	C	Police Academy	135
Administration of Justice, Probation Core Course	8942	C	Police Academy	135
Administration of Justice, Public Safety Dispatcher	8970	C	Police Academy	135
Administration of Justice, Requalification—Basic Course	8925	C	Police Academy	135
Administration of Justice, STC Basic Supervisor	8926	C	Police Academy	136
African-American Studies	7640	AA	Cultural Studies	136
Allied Health, Pre-Allied Health	4526	AS	Allied Health	136
Allied Health, Public Health Science for Transfer	8400	AS-T	Allied Health	113, 137
American Indian Studies	7680, 7681	AA, C	Cultural Studies	137, 138
American Sign Language Studies	5505	AA	Foreign Languages	138
Anthropology for Transfer	7150	AA-T	Anthropology & Economics	114, 139
Anthropology-Archaeology, Archaeological Technician	7120	CA	Anthropology & Economics	139
Applied Technology, Employment Essentials	8101	CA	Energy, Controls & Communication	140
Architecture	6810	AS, CA	Digital Design & Manufacturing	140, 141
Architecture, Basic Architectural Contract Documents	6811	C	Digital Design & Manufacturing	141
Architecture, Basic Architectural Design	6812	C	Digital Design & Manufacturing	141
Architecture, Basic Architectural Office Practice	6813	C	Digital Design & Manufacturing	142
Architecture, Basic Architectural Skills 1	6814	C	Digital Design & Manufacturing	142
Architecture, Basic Architectural Skills 2	6815	C	Digital Design & Manufacturing	142

PROGRAM	MAJOR CODE	DEGREE/ CERTIFICATE TYPE	DEPARTMENT	PAGE #
Architecture, Basic Digital Architecture	6816	C	Digital Design & Manufacturing	142
Art	5205	AA	Art	143
Art, Art History for Transfer	5206	AA-T	Art	115, 143
Art, Studio Arts for Transfer	5250	AA-T	Art	115, 144
Art, Studio Art	5210	CA	Art	145
Asian American Studies	7695	AA	Cultural Studies	145
Automotive Collision Repair Technology	8071, 8072	AS, CA, C	Advanced Fabrication & Transportation	146
Automotive Technology	8051	AS, CA	Advanced Fabrication & Transportation	147
Automotive Technology, Alternative Fueled Vehicle (AFV)	8078	CA	Advanced Fabrication & Transportation	147
Automotive Technology, Chassis Technician	8053	C	Advanced Fabrication & Transportation	148
Automotive Technology, Chassis Technician I	8056A	C	Advanced Fabrication & Transportation	148
Automotive Technology, Chassis Technician II	8056B	C	Advanced Fabrication & Transportation	148
Automotive Technology, Diesel Technology	8059	AS, CA	Advanced Fabrication & Trans- portation	148
Automotive Technology, Emission Technician	8054	C	Advanced Fabrication & Transportation	149
Automotive Technology, Emission Technician I	8057A	C	Advanced Fabrication & Transportation	149
Automotive Technology, Emission Technician II	8057B	C	Advanced Fabrication & Transportation	149
Automotive Technology, General Motors ASEP Program	805G	AS	Advanced Fabrication & Transportation	150
Automotive Technology, Hybrid Electric Vehicle (HEV)	8079	CA	Advanced Fabrication & Transportation	149
Automotive Technology, Powertrain Technician	8055	C	Advanced Fabrication & Transportation	150
Automotive Technology, Powertrain Technician I	8058A	C	Advanced Fabrication & Transportation	150
Automotive Technology, Powertrain Technician II	8058B	C	Advanced Fabrication & Transportation	150
Biology	6082	AS	Life Science	151
Biology, Field Biologist	6083	CA	Life Science	152
Biology for Transfer	6082	AS-T	Life Science	116,151
Business Administration	2050	AA	Business & Technology	152

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PROGRAM	MAJOR CODE	DEGREE/ CERTIFICATE TYPE	DEPARTMENT	PAGE #
Business Administration for Transfer	2049	AS-T	Business & Technology	117, 153
Business Administration, 21 <sup>st</sup> Century Work Competencies	2035	C	Business & Technology	153
Business Administration, Entrepreneurial Ventures	2041	C	Business & Technology	153
Business Administration, Human Resource Management Assistant	2052	C	Business & Technology	154
Business Administration, Professional and Civic Behaviors	2036	C	Business & Technology	157
Business Administration, Management	2181	AS, CA	Business & Technology	154, 155
Business Administration, Management, Business Finance and Accounting	2031	C	Business & Technology	155
Business Administration, Management, Business Finance and Investments	2271	C	Business & Technology	155
Business Administration, Management, Human Relations and Communications	2510	C	Business & Technology	156
Business Administration, Management, Human Resource Management and Human Relations	2520	C	Business & Technology	156
Business Administration, Management, Management and Supervision	2182	C	Business & Technology	156
Business Administration, Management, Personal Finance and Investments	2032	C	Business & Technology	156
Business Administration, Management, Small Business Management	2030	C	Business & Technology	157
Business Administration, Management, Real Estate Course Qualification	2192	C	Business & Technology	157
Business & Technology, Basic Clerical Skills	2471	CC	Business & Technology	162
Business & Technology, Bookkeeping Fundamentals	2015	C	Business & Technology	160
Business & Technology, Business Office English	2372	C	Business & Technology	160
Business & Technology, Business Office Math Fundamentals	2328	C	Business & Technology	161
Business & Technology, Clerical Training	247V	CC	Business & Technology	162
Business & Technology, Computer Applications Software	2202	C	Business & Technology	161
Business & Technology, Keyboarding Skills	2472	CC	Business & Technology	162
Business & Technology, Medical Office Assistant	2243	CA	Business & Technology	161

PROGRAM	MAJOR CODE	DEGREE/ CERTIFICATE TYPE	DEPARTMENT	PAGE #
Business & Technology, Microsoft Office Foundations	2325	C	Business & Technology	161
Business & Technology, Microsoft Word	2323	C	Business & Technology	161
Business & Technology, Office Professional — Executive Assistant Emphasis	2215	AS, CA	Business & Technology	157, 158
Business & Technology, Office Professional — Legal Office Emphasis	2104	AS, CA	Business & Technology	158, 159
Business & Technology, Office Professional — Medical Office Emphasis	2383	AS, CA	Business & Technology	159
Business & Technology, Office Professional — One-Person Office Emphasis	2064	AS, CA	Business & Technology	160
Business & Technology, One-Person Office	2063	CA	Business & Technology	162
Career & Technology Center, Auto Collision Repair	807V	CC	Career & Technology Center	102
Career & Technology Center, Industrial Training	852V	CC	Career & Technology Center	102
Career & Technology Center, Maintenance Mechanic	806V	CC	Career & Technology Center	102
Career & Technology Center, Manufacturing Mechanic	8301	CC	Career & Technology Center	102
Chemistry	6320	CA	Chemistry	163
Chemistry, Certificate in	6320	C	Chemistry	163
Chicano-Latino Studies	7661	AA	Cultural Studies	163
Chicano-Latino Studies, Social Justice Studies, Chicano Studies for Transfer	7662	AA-T	Cultural Studies	117, 164
Child Development	5615, 5618	AS, CA	Child Development	165, 166
Child Development, Child Welfare	5581	CA	Child Development	167
Child Development, Early Childhood Education	5616	CA	Child Development	166
Child Development, Early Childhood Education for Transfer	5605	AS-T	Child Development	118, 166
Child Development, Early Intervention	5621	AS	Child Development	167
Child Development, Early Intervention Assistant	5617	CA	Child Development	167
Child Development, Family Child Care	5571	CA	Child Development	168
Child Development, Infant and Toddler Specialist	5619	CA	Child Development	168
Communication Studies for Transfer	5432	AA-T	Communication	119, 170

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Communication Skills for Professionals	5433	C	Communication	170
Computer Aided Drafting and Design	3051	AS, CA	Digital Design & Manufacturing	170, 171
Computer Aided Drafting and Design, 2D CAD Technician	3053	C	Digital Design & Manufacturing	171
Computer Aided Drafting and Design, 3D CAD Technician	3054	C	Digital Design & Manufacturing	171
Computer Aided Drafting and Design, 3D CAD/CAM	3055	C	Digital Design & Manufacturing	172
Computer Aided Drafting and Design, CAD Technician I	3052	C	Digital Design & Manufacturing	172
Computer Aided Manufacturing	8271	AS, CA	Digital Design & Manufacturing	172, 173
Computer Information Technology, Android Application Developer	2730	C	Computer Information Technolo- gy & Decision Science	173
Computer Information Technology, Apple iOS Developer	2731	C	Computer Information Technolo- gy & Decision Science	173
Computer Information Technology, Computer Information Systems	2701	AS	Computer Information Technolo- gy & Decision Science	173
Computer Information Technology, Cyber Technician Specialist	2751	C	Computer Information Technolo- gy & Decision Science	174
Computer Information Technology, Cybersecurity	2750	CA	Computer Information Technolo- gy & Decision Science	174
Computer Information Technology, Information Security I	2714	C	Computer Information Technolo- gy & Decision Science	174
Computer Information Technology, Information Security II	2715	C	Computer Information Technolo- gy & Decision Science	174
Computer Information Technology, Microsoft Certified Specialist	2724	CA	Computer Information Technolo- gy & Decision Science	175
Computer Information Technology, Networking/Computer Technician	2720	AS, CA	Computer Information Technolo- gy & Decision Science	175
Computer Information Technology, Preparation in Microsoft Office	2710	C	Computer Information Technolo- gy & Decision Science	176
Computer Information Technology, System Support Specialist	2723	C	Computer Information Technolo- gy & Decision Science	176
Computer Information Technology, Web Developer	2742	AS, CA	Computer Information Technolo- gy & Decision Science	176
Computer Information Technology, Web Page Development	2741	C	Computer Information Technolo- gy & Decision Science	177
Construction	8091	AS, CA	Digital Design & Manufacturing	177
Construction, Residential Construction	8092	CA	Digital Design & Manufacturing	178
Construction, Residential Construction Wiring	8092	C	Digital Design & Manufacturing	178



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Criminology, Administration of Justice for Transfer	7750	AS-T	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	120, 178
Criminology, Correctional Science Option	7731	AS, CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	179
Criminology, Criminology Option	7700	AS, CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	180
Criminology, Forensic Evidence Option	7732	AS, CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	181, 182
Criminology, Law Enforcement Option	8872	AS, CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	182, 183
Criminology, Pre-Academy Training Option	8923	CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	183
Culinary Arts, Advanced	5686	C	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	184
Culinary Arts, Basic	5684	C	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	183
Culinary Arts, Intermediate	5685	C	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	184
Cultural Studies, Social Justice Studies, General for Transfer	7663	AA-T	Cultural Studies	118, 184
Dance	5390	AA	Theatre Arts	185
Dental Hygiene	4580	AS	Allied Health	185
Developmental Services, Career Readiness	7010	C	Developmental Services	186
Developmental Services, Effective Communications	5434	C	Developmental Services	187
Developmental Services, High Tech Adaptive	7006	C	Developmental Services	187
Developmental Services, Ornamental Horticulture Skills	1061	C	Developmental Services	187
Development Services, School to Work, Clerical	7004	C	Developmental Services	188
Economics for Transfer	2020	AA-T	Anthropology & Economics	120, 188
Education, Early Childhood Paraprofessional	5912	CA	Child Development	188

PROGRAM	MAJOR CODE	DEGREE/ CERTIFICATE TYPE	DEPARTMENT	PAGE #
Education, Elementary Teacher Education for Transfer	5920	AA-T	Child Development	121, 189
Education Paraprofessional	5911	CA	Child Development	190
Education, Special Education Paraprofessional	5913	CA	Child Development	190
Electrical Systems Technology	8171	AS, CA	Energy, Controls & Communication	191
Electrical Systems Technology, Biomedical Equipment Technician	6086	CA	Energy, Controls & Communication	192
Electrical Systems Technology, Electricity Fundamentals 1	8191	CA	Energy, Controls & Communication	192
Electrical Systems Technology, Electricity Fundamentals 2	8192	CA	Energy, Controls & Communication	192
Electrical Systems Technology, Electromechanical 1	8193	CA	Energy, Controls & Communication	193
Electrical Systems Technology, Electromechanical 2	8194	CA	Energy, Controls & Communication	193
Electrical Systems Technology, Facility Controls	8189	CA	Energy, Controls & Communication	193
Electrical Systems Technology, Industrial Automation 1	8188	CA	Energy, Controls & Communication	194
Electrical Systems Technology, Industrial Automation 2	8195	CA	Energy, Controls & Communication	194
Electrical Systems Technology, Industrial Maintenance Technician	8190	CA	Energy, Controls & Communication	194
Electrical Systems Technology, Introduction to Industrial Controls	8185	C	Energy, Controls & Communication	194
Electrical Systems Technology, Low Voltage	8187	CA	Energy, Controls & Communication	193
Electrical Systems Technology, Photovoltaics	8196	CA	Energy, Controls & Communication	191
Engineering: Civil	3011	AS, CA	Earth, Physical Science, & Engineering	195
Engineering: Computer, Software	3012	AS, CA	Earth, Physical Science, & Engineering	196
Engineering: Electrical	3013	AS, CA	Earth, Physical Science, & Engineering	197
Engineering: Mechanical, Aerospace, and Manufacturing	3014	AS, CA	Earth, Physical Science, & Engineering	198
English for Transfer	5305	AA-T	Letters	122, 199
Fire Technology	883A	AS, CA	Fire Technology	200



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Fire Technology, Basic Fire Academy	883B	CA	Fire Technology	200
Fire Technology, Emergency Medical Technician I	8842	C	Fire Technology	201
Fire Technology, Emergency Medical Technician I Refresher	8843	C	Fire Technology	201
Fire Technology, Firefighter II	8835	C	Fire Technology	201
Fire Technology, Prehospital Paramedic Care	8845	CA	Fire Technology	201
Food and Nutrition	5682	AS, CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	202
Food and Nutrition, Dietary Aide	5750	C	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	202
Food and Nutrition, Dietetic Service Supervisor	5681	CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	203
Food and Nutrition, Nutrition and Dietetics for Transfer	5683	AS-T	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	128, 203
Food Service Management	5691	AS, CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	204
Food Service Management, Child Nutrition	5692	CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	204
General Education, CSU-GE Breadth	5010	CA	Guidance Studies	205
General Education, IGETC Breadth	5020, 5030	CA	Guidance Studies	209
Geography for Transfer	6072	AA-T	Earth, Physical Science & Engineering	123, 213
Geology for Transfer	6070	AS-T	Earth, Physical Science & Engineering	123, 213
Global Studies for Transfer	7740	AA-T	History, Political Science	124, 214
Graphic Communications, Digital Media	8508	C, CC	Visual Media Technology	215
Graphic Communications, Digital Video	8509	C	Visual Media Technology	215
Graphic Communications, Graphic Design	8507	AA, CA, CC	Visual Media Technology	214, 215
Graphic Communications, Motion Graphics	8512	CA, CC	Visual Media Technology	215, 216
Graphic Communications, Video Production	8511	AS, CA, CC	Visual Media Technology	216



PROGRAM	MAJOR CODE	DEGREE/ CERTIFICATE TYPE	DEPARTMENT	PAGE #
Health Information Technology	4623	AS	Allied Health	216
Health Information Technology, Medical Coding	4627	CA	Allied Health	217
Heating, Ventilation, & Air Conditioning, HVAC Technology I	8041	CA	Energy, Controls & Communication	218
Heating, Ventilation, & Air Conditioning, HVAC Technology II	8042	AS	Energy, Controls & Communication	218
Heating, Ventilation, & Air Conditioning, RETA-CARO Certification Ready	8044	CC	Energy, Controls & Communication	218
History for Transfer	7380	AA-T	History & Political Science	124, 219
Honors	5331	CA	Honors	219
Human Services, Alcoholism and Drug Abuse Counseling Option	7951	AS, CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	220, 221
Human Services, Elder Care Human Services	7634	CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	221
Human Services, Pre-Social Work Option	7633	AS, CA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	221, 222
Human Services, Social Work and Human Services for Transfer	7635	AA-T	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	125, 223
Industrial Technology	8992	AS	Digital Design & Manufacturing	224
Journalism	5351	AA	Communication Arts	224
Journalism for Transfer	5355	AA-T	Communication Arts	125, 225
Kinesiology	4555	AS	Physical Education	225
Kinesiology for Transfer	4555	AA-T	Physical Education	126, 226
Law, Public Policy, and Society for Transfer	8770	AA-T	Cultural Studies	127, 227
Law, Pre-Law in Interdisciplinary Studies	8710	AS	History & Political Science	227
Liberal Arts, Emphasis in American Sign Language	5101	AA	Foreign Languages	229
Liberal Arts, Emphasis in Cultural Studies	5121	AA	Cultural Studies	229
Liberal Arts, Emphasis in Foreign Languages	5134	AA	Foreign Languages	230
Liberal Arts, Emphasis in History/Political Science	5141	AA	History & Political Science	230
Liberal Arts, Emphasis in Social Sciences	5176	AA	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	231
Library Technology	5171	AS, CA	Learning Resource Center	232



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Manufacturing Technician	8061	C	Career & Technology Center	232
Marketing	2110	AS, CA	Business Administration, Fashion Merchandising, & Marketing	232, 233
Marketing, Advertising	2113	C	Business Administration, Fashion Merchandising, & Marketing	233
Marketing, Fashion Merchandising	2152	AS, CA, C	Business Administration, Fashion Merchandising, & Marketing	233, 234
Marketing, Personal Sales	2114	C	Business Administration, Fashion Merchandising, & Marketing	235
Marketing, Retailing	2116	C	Business Administration, Fashion Merchandising, & Marketing	235
Marketing, Retail Management	2055	AS, CA	Business Administration, Fashion Merchandising, & Marketing	234
Mathematics for Transfer	6250	AS-T	Mathematics	127, 235
Medical Assistant, Clinician	2120, 2121	AS, CA	Allied Health	236
Music for Transfer	5805	AA-T	Music	128, 237
Music, Brass Performance	5811	C	Music	239
Music, Commercial Music	5850	AS, CA	Music	242, 243
Music, Guitar Majors	5830	AA	Music	238
Music, Guitar Performance	5831	C	Music	239
Music, Instrumental Majors	5810	AA	Music	237
Music, Jazz Performance	5812	C	Music	240
Music, Percussion Performance	5813	C	Music	240
Music, Piano Majors	5840	AA	Music	239
Music, Piano Performance	5841	C	Music	241
Music, String Performance	5814	C	Music	241
Music Theory	5860	C	Music	240
Music, Vocal Majors	5820	AA	Music	238
Music, Vocal Performance	5821	C	Music	241
Music, Woodwind Performance	5815	C	Music	242
Nursing, Registered	4520	AS	Nursing	243
Paralegal	2550	AS, CA	Paralegal & Real Estate	246
Philosophy for Transfer	5341	AA-T	Letters	129, 246
Photography, Commercial Photography	5222	CA	Visual Media Technology	247
Photography, Digital Photography	5223	CA	Visual Media Technology	247
Photography, Fine Art Photography	5224	CA	Visual Media Technology	248

PROGRAM	MAJOR CODE	DEGREE/ CERTIFICATE TYPE	DEPARTMENT	PAGE #
Photography, Photojournalism	5225	CA	Visual Media Technology	248
Photography, Professional	5221	AS, CA	Visual Media Technology	247
Photography, Social Media Imaging		C	Visual Media Technology	248
Physics for Transfer	6335	AS-T	Earth, Physical Science, & Engineering	129, 249
Political Science for Transfer	7450	AA-T	History & Political Science	130, 249
Psychology	7501	AA	Psychology	250
Psychology for Transfer	7550	AA-T	Psychology	130, 250
Radiologic Technology	4570	AS	Allied Health	251
Recreation Leadership	4300	AA, CA	Physical Education	252
Respiratory Care Practitioner	4610	AS	Allied Health	253
Sign Language Interpreting Preparation Program	5101	CA	Foreign Languages	254
Sociology for Transfer	7600	AA-T	Criminology, Human Services, Sociology, Food & Nutrition & Food Services Management	131, 254
Spanish for Transfer	5550	AA-T	Foreign Languages	131, 255
Sports Medicine	4330	AS	Physical Education	248
Theatre Arts	5440	AA	Theatre Arts	255
Theatre Arts for Transfer	5445	AA-T	Theatre Arts	132, 256
Theatre Arts, Design/Technical Theatre Studies	5482	AA	Theatre Arts	256
Welding Technology, Automated Welding Systems	8377	CA	Advanced Fabrication & Transportation	257
Welding Technology, Metal Fabrication Option	8371	AS, CA	Advanced Fabrication & Transportation	257, 258
Welding Technology, Pipe and Structural Steel Certification	8375	AS, CA	Advanced Fabrication & Transportation	258, 259
Welding Technology, Welding and Fabrication Entrepreneurship	8376	CA	Advanced Fabrication & Transportation	260
Welding Technology, Welding Design and Fabrication	8374	CA	Advanced Fabrication & Transportation	260
Welding Technology, Welding Multi-Process	8373	CA	Advanced Fabrication & Transportation	261
Women's Studies	7610	AA	Cultural Studies	261

**Allied Health, Physical  
Education and Athletics  
Division**

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# DIVISIONS

## Allied Health, Physical Education and Athletics Division

The Allied Health, Physical Education and Athletics Division offers courses for fulfilling requirements in a number of occupational programs such as:

- Autism Technician
- Dental Hygiene
- Health Information Technology
- Kinesiology
- Medical Assistant - Clinician
- Medical Coding
- Pre-Allied Health
- Public Health
- Radiologic Technology
- Registered Nursing
- Respiratory Care Practitioner
- Sports Medicine

The Allied Health, Physical Education and Athletics Division also offers a variety of courses and programs in health science, physical education, recreation and recreation leadership. Such courses may be taken for general interest and/or degree requirements. The courses are listed on pages 300, 442, and 453.

### Health Care Career Programs

All students must complete the appropriate Academic Summary Form for consideration for acceptance into most health care career programs. Registered Nursing also utilizes a multi-criteria screening process via an online application. Students must also meet the normal admission requirements as fully matriculated regular students at Fresno City College. See page 13 for a list of these requirements.

For impacted programs (programs having more applicants than seats available), applicants will be required to have all their application requirements completed before their names can be submitted for lottery selection. Those interested in entering one of these programs are urged to obtain information from a health career counselor so that they might make a more realistic evaluation of their chances for being accepted. Students must meet specific prerequisites for the program of their choice.

Upon entry to the Dental Hygiene, Radiologic Technology, Registered Nursing, Respiratory Care Practitioner, Health Information Technology and Medical Assistant — Clinician programs, students may be required to obtain a background check.

Due to changes expected from the state, students will be considered for entry into a health care career program under the requirements listed in the current catalog or catalog supplement. Although the catalog is a one-year catalog, a catalog supplement is published each year. It is important that students understand that the college will use the criteria for program eligibility based on the catalog or the catalog supplement in effect at the time of submission of the Academic Summary Form, not the initial registration at Fresno City College.

See academic requirements under the appropriate health career program in the college catalog and/or catalog supplement. Additional information may be obtained by contacting a Fresno City College Health and STEM Pathways counselor. To keep current on changes, students are expected to check the program website regularly.

## Applied Technology Division

The Applied Technology Division provides experiences which serve to guide students in their transition from the classroom to employment, employment upgrade and transfer to other education institutions.

Counselors and educational advisors are available to assist students in planning specific courses of study. To ensure that courses are in keeping with current occupation and industrial practices and requirements, joint management and employee advisory committees are set up in each occupation in which courses are offered.

Major fields of study offered by this division include architecture, automotive collision repair technology, automotive technology, General Motors Technology GM ASEP/MOPAR, computer aided drafting and design, computer aided manufacturing, construction, electrical systems technology, graphic communications, heating, ventilation, & air conditioning (HVAC), photography, and welding/metal fabrication.

Transfer college programs in architecture, automotive technology, and industrial technology are available.

Information concerning the classification of courses and other data concerning the division follows:

### Associate in Science Degree

Generally, the two-year program leading to the associate in science degree provides the specialized skills and related information necessary to enable the graduate to find employment and to advance in their chosen field. Trade preparatory majors in the Applied Technology Division must complete the specified courses as outlined for each program.

Courses required for each degree program are generally offered each semester but are subject to cancellation or change. Students are advised to seek assistance from counselors and/or faculty advisors in planning their programs.

Associate in science degree requirements can be found under degree requirements on page 37.

### Certificate of Achievement

A certificate of achievement will be awarded to students who have completed the designated subjects in the program major.

Courses required for each certificate program are generally offered each semester but are subject to cancellation or change. Students are advised to seek assistance from Applied Technology division counselors and/or faculty advisors in planning their certificate program.

### Certificates

A certificate will be awarded to students who have completed the designated subjects in the training program with a minimum "C" grade.

### Work Experience Education

Through the cooperation of Fresno City College, industry and the community, students may work toward graduation while employed in trade, industrial or diversified occupations.

These courses are numbered 19. College credit is granted for the internship and/or work experience (paid and unpaid). Inquire through your instructor or see an Applied Technology division counselor.

### Apprenticeship Programs/Courses

Apprenticeship classes and programs are organized in cooperation with the joint apprenticeship committee of the respective craft for training of apprentices approved by the State of California, Division of Apprenticeship Standards.

## Career & Technology Center and Workforce Development

Located off Fresno City College's main campus, the Career & Technology Center offers a learning environment for practical hands-on education. Major fields of study offered by the Center include Auto Collision Repair, Emergency Medical Technician (EMT) Fire Academy, Fire Technology, Industrial Training, Maintenance Mechanics, and Manufacturing Mechanics. Year-round registration is in effect for a variety of noncredit, open-entry classes. Counseling and job placement services are available. CTC is located at 2930 E. Annadale Avenue, Fresno. For a complete listing of classes, call (559) 265-5700.

### Courses and Programs

Most classes run six hours a day, five days per week, for the number of weeks indicated. Enrollment is taken on an open-entry basis, and class beginning and ending dates are calculated for each individual enrollee.

Students are required to attend an orientation before being allowed to register.

A student may not register for a course subsequent to another course without having first successfully met the performance requirements of the former course.

Partial credit will not be given to students who do not complete a course/program.

### Applied Technology Division

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## Satisfactory Progress Standards

### *Satisfactory Progress*

State law requires students to maintain satisfactory progress while enrolled at a community college. Students who do not complete courses in which they enroll, will be penalized as follows:

### *Placement on Progress Probation*

A student will be placed on progress probation if:

1. The student's absences total 30 hours in Automotive Collision Repair, Maintenance Mechanic, 10 hours in Industrial Training  
**OR**
2. The student fails to maintain a "C" average between monthly progress reports.

### *Removal from Progress Probation*

A student put on progress probation because of excessive absence (30 accumulated hours) will remain on progress probation until completion of the program. Those students on academic probation (below a "C" average) shall be removed from progress probation if they improve their overall grade to a "C" average by the end of the next monthly report.

### Program Dismissal

A student who has been placed on progress probation shall be subject to dismissal if:

1. Their accumulated absence hours total 60 in Automotive Collision Repair, Maintenance Mechanic; 17 in Industrial Training  
**OR**
2. Their monthly grade remains below "C" for two consecutive months.

### Readmission Following Progress Dismissal

A student who has been dismissed because of progress probation must petition for readmission.

Following the first dismissal, under District standards, a student will not be admitted to school until one cycle of the class has elapsed. If a student fails to complete the course following their initial dismissal, the student shall be dismissed for two cycles of the course. If the student fails to complete the course after the second dismissal, they shall be dismissed again. The third dismissal shall be considered permanent.

Veterans are required to complete the course/program for full benefit payment.

## Certificate of Achievement

A certificate of achievement will be awarded to students who have completed the designated subjects in the program major.

Courses required for each certificate program are generally offered each semester but are subject to cancellation or change. Students are advised to seek assistance from their counselors and/or faculty advisors in planning their certificate program.

## Certificates

A certificate will be awarded to students successfully completing the following course(s) or training program with a minimum "C" grade.

### *Administration of Justice*

1. Juvenile Correctional Officer Core (AJ 286)(Major #8943)
2. Post Basic Supervisor (AJ 276) (Major #8924)
3. Probation Core Course (AJ 285) (Major #8942)
4. Public Safety Dispatcher (AJ 278) (Major #8970)
5. STC Basic Supervisor (AJ 276A) (Major #8926)

### *Fire Technology*

1. Emergency Medical Technician 1 (FIRET 131) (Major #8842)
2. Emergency Medical Technician 1 Refresher (FIRET 261) (Major #8843)
3. Firefighter II (FIRET 22A and 22B) (Major #8835)

## Certificates of Completion

A certificate of completion may be awarded after meeting the designated competencies in non-credit courses.

### *Automotive Collision Repair*

<b>(Major #807V)</b>	<b>Hours</b>
Automotive Collision Repair 371, Fundamentals of Welding Technology and Working Sheet Metal	300
Automobile Collision Repair 372, Body Work Technology	300
Automotive Collision Repair 373, Automotive Refinishing Technology	300
Program Total	900

### *Industrial Training*

<b>(Major #852V)</b>	<b>Hours</b>
Industrial Training 371, Warehouse and Distribution Careers	90
Industrial Training 372, Warehouse and Distribution Careers	90
Program Total	180

*Maintenance Mechanic*

(Major #806V)	Hours
Maint Mech 370, Weld/Machine Shop	300
Maint Mech 371, Hydraulics/ Pneumatics	300
Maint Mech 372, Electrical Fund	300
Program Total	900

*Manufacturing Mechanic*

(Major #8301)	Hours
MFG Mechanic 351, Intro to Manufacturing	9
MFG Mechanic 352A, Trade Mathematics	18
MFG Mechanic 352B, Programmable Controllers	18
MFG Mechanic 352C, Job Preparation	18
MFG Mechanic 352D, Technical Report Writing	18
MFG Mechanic 353A, Fluid Power Fundamentals	9
MFG Mechanic 353B, Pneumatic Fundamentals	18
MFG Mechanic 353C, Hydraulic Fun- damentals	18
MFG Mechanic 354A, Power Transmission	9
MFG Mechanic 354B, Welding Funda- mentals	45
MFG Mechanic 354C, Electrical Funda- mentals	45
Program Total	225

**Admission to the Academy Programs**

Admission of students into Fresno City College Peace Officers and Fire Technology Academy programs is in accordance with the "Admission of Students" from the Fresno City College catalog, page 11, with the following exceptions:

- 1. Basic Police Academy:** Students must successfully complete the POST standardized Reading Comprehension and Writing Skills test and the POST Physical Agility Test, or be sponsored by a law enforcement agency. A medical exam, driver's license check and criminal history check are mandatory. (Requires special counseling.)

- 2. Advanced Officer Courses:** All Advance Officer Training courses presented by the Police Academy, the students shall meet each individual course's prerequisites.
- 3. PC 832 Courses:** Students must be able to demonstrate physical ability to use a firearm and to perform arrest and control techniques safely. Student must obtain a Department of Justice clearance for firearms possession prior to the firearms portion of this class.
- 4. Basic Fire Academy:** Medical exam conducted by a California licensed physician, including resting EKG & physician's written explanation of EKG printout. PREREQUISITE: FIRET 1 or equivalent and FIRET 131 or equivalent with National Registry.
- 5. Fire Instructor IB:** Completion of Fire Instructor IA.

*Note: All academy units will be counted as elective credit unless otherwise designated.*

The nonaffiliated students attending basic peace officer's academies will be responsible for providing the following items (for the student's own use): California Penal Code and Vehicle Code, an approved firearm, ammunition and leather gear, notebook, paper, pens, pencils, uniform, physical training shorts, tee-shirts, tennis shoes, white socks, sweatshirt, sweatpants, black socks, black shoes, and lunches. All Basic Police Academy students will also be responsible for payment of driving and range fees.

FEE	COST
Basic Academy Range fee	\$120.00*
Basic Academy Driving fee	\$200.00*
P.C. 832 Range fee	\$45.00*
Basic Academy, Module I	\$45.00*
Basic Academy, Module I Driving fee	\$200.00*
Basic Academy, Module II Range fee	\$60.00*
Basic Academy, Module III Range fee	\$45.00*
Basic Academy, Module III Driving fee	\$50.00*

All courses conducted through the Police Academy Program have in-class registration.

*\*Range fees are subject to change.*

**Business Division**

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## Business Division

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The Business Division at Fresno City College is composed of five departments: Accounting, Business Administration, Business & Technology, Computer Information Technology/Decision Sciences, and Paralegal. Each department offers multiple degree and certificate programs to meet the educational needs of our students.

In addition to traditional, semester length classes, we offer a 25-month evening program for working adults to achieve an associate in arts in Business Administration, and a number of short-term certificate programs.

The Business Division is equipped to offer the following opportunities for our students:

- Lower division courses for students planning to transfer to four-year colleges and universities.
- Short, intensive programs for those who wish to specialize in one area with immediate employment in mind.
- Career training and retraining.
- Electives for students in other divisions.

The regular two-year program with a transfer objective leads to the associate in arts degree. Occupational preparation, on the other hand, demands in-depth concentration over a like period of time culminating in an associate in science degree. A certificate of achievement is available in all programs for those who choose not to complete all of their general education requirements and to take only the classes required by the major.

### Classroom to Worksite Collaboration

The Business Division faculty and staff coordinate the school and the job by bringing to the classroom the latest information on business methods and employers' needs. Leaders from business are invited to the class as guest speakers and counsel students concerning career opportunities, standards, work habits and attitudes. We also work with local businesses to further meet the educational needs of their employees.

### Employment Experience

Full-time faculty work with students to secure part-time cooperative work experience as part of their program.

Students planning to seek employment upon graduation from Fresno City College, as well as those who plan a short, intensive training period, will find the suggested curricula on the following pages a guide in planning their courses.

### The Future

The suggested courses of study offered by the Business Division prepare the student for transfer to a four-year university and/or immediate employment in business.

### Associate in Arts Degree

The associate in arts degree is offered primarily for transfer students in the area of business administration. Associate degree requirements are listed on page 37.

### Associate in Science Degree

The associate in science degree programs, as listed in the following pages, show the designated course requirements and the departmental recommendations for elective courses. These electives are supportive and carry a strong recommendation. Associate degree requirements are listed on page 37.

### Certificate of Achievement

For a listing of certificate of achievement programs see page 87.

### Certificates

Certificate programs are listed below.

#### *Business Administration*

1. 21st Century Work Competencies (BA 10, 33) (Major #2035)
2. Business Finance and Accounting (ACCTG 4A, 4B; BA 35) (Major #2031)
3. Business Finance and Investments (BA 34, 35) (Major #2271)
4. Entrepreneurial Ventures (BA 10, 24, 27, 30, 51, 52) (Major #2041)
5. Human Relations and Communications (BA/BT 5, BA 33) (Major #2510)
6. Human Resource Management Assistant (BA 31, 33, BT 9/BT 25/CIT 20) (Major #2052)
7. Human Resource Management and Human Relations (BA 31, 33) (Major #2520)
8. Management and Supervision (BA 40, 43) (Major #2182)
9. Personal Finance and Investments (BA 30, 34) (Major #2032)
10. Professional and Civic Behaviors (BA 101, 102, 103, 104) (Major #2036)



11. Small Business Management (BA 38, 51) (Major #2030)
12. Real Estate Course Qualification (ACCTG 4A/ BA18, RE 40, 41) (Major #2192)

#### *Business and Technology*

1. Bookkeeping Fundamentals (BT 24, 131) (Major #2015)
2. Business Office English (BT 5, 112) (Major #2372)
3. Business Office Math Fundamentals (BT 104, 115) (Major #2328)
4. Clerical Training (BT 370A, 370B) (Major #247V)
5. Computer Applications Software (BT 9, 10, 33, 106) (Major #2202)
6. Microsoft Office Foundations (BT 24/9, 28, 126/9, 127, 130/9) (Major #2325)
7. Microsoft Word (BT 28, 29) (Major #2323)

#### *Computer Information Technology*

1. Android Application Developer (CIT 15, 63, 65) (Major #2730)
2. Apple iOS Developer (CIT 69, 70) (Major #2731)
3. Cyber Technician Specialist (CIT 48A, 48B) (Major #2751)
4. Information Security I (CIT 40, 57, 58B, 58C) (Major #2714)
5. Information Security II (CIT 50, 58D, 58E, 58F) (Major #2715)
6. Preparation in Microsoft Office (BT 28, 29, 127; CIT 20, 23, 24, 26) (Major #2710)
7. System Support Specialist (CIT 40, 45, 48B; 60) (Major #2723)
8. Web Page Development (CIT 82, 85, 93) (Major #2741)

#### *Marketing*

1. Advertising (MKTG 10, 12, 21) (Major #2113)
2. Fashion Merchandising (MKTG 14, 17, 22) (Major #2152)
3. Personal Sales (BA 33, MKTG 10, 11) (Major #2114)
4. Retailing (BA 33, MKTG 10, 14) (Major #2116)

## Co-Curricular Activities

As an integral part of the instructional program, the Business Division supports three co-curricular groups. The effort is represented by groups such as the Paralegal Student Organization (Paralegal majors), the Collegiate Entrepreneurs Organization (CEO) and the CIT Zero Computer Technology Club. Students have the opportunity to participate in service-oriented activities and field trips that benefit both the college and community. These student organizations are designed to encourage sharing of common goals and to promote further development of knowledge and skill sets. In addition, co-curricular activities provide a medium through which leadership qualities can be taught and the laboratory in which they can be tested, practiced and proven. Membership is open to students with an interest in the subject, and active participation is highly encouraged.

These co-curricular activities provide a medium through which leadership qualities can be taught and the laboratory in which they can be tested, practiced and proven. Membership is open to students with an interest in the subject, and active participation is highly encouraged.

## Nontransfer Students

The suggested courses of study offered by the Business Division prepare the student for immediate employment in business.



## Fine, Performing, and Communication Arts

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## Fine, Performing, and Communication Arts Division

The Fine, Performing, and Communication Arts Division offers a rich variety of courses to acquaint students with the arts. The courses in the division examine the breadth of human experience through the study, analysis, and discussion of art, film, music, theatre, and interpersonal communication.

### Associate in Arts Degree

- Art
- Art History for Transfer
- Communication for Transfer
- Dance
- Journalism
- Journalism for Transfer
- Music for Transfer
- Music, Guitar
- Music, Instrumental
- Music, Piano
- Music, Vocal
- Theatre Arts
- Theatre Arts for Transfer

### Associate in Science Degree

- Music, Commercial Music

### Certificate of Achievement

- Studio Art
- Music, Commercial Music

### Communication Arts

The Communication Arts Department offers courses in film, communication, and journalism. Students may select courses to fulfill general education requirements and courses for majors in communication and journalism. Students enrolled in the journalism program have the opportunity to gain valuable experience in the production of the college newspaper, *The Rampage*.

The Forensic program at Fresno City College has long been recognized as one of the most outstanding programs among community colleges in both the state and the nation. Students in the program compete in several tournaments during the academic year, which lead to competition in the state and national tournaments for invited students.

All students enrolled in communication classes have the opportunity to participate in an intramural tournament hosted by the Forensics program.

### Fine and Performing Arts

Students have the opportunity to complete lower division requirements for transfer in art, music, theatre arts, and dance. In addition to an examination of the creative process and an introduction to theoretical models, students are able to participate in several venues that spotlight student work.

#### *Art Space Gallery*

A juried exhibition of student work is held and prizes are awarded during the spring semester.

#### *Music*

Students have several options to participate in performance groups, including the Fresno City College Jazz Band, Concert Band, City Singers, and College Choir.

#### *Dance*

The Fresno City College Dance program offers students the full range of dance experiences with classes ranging from classic styles such as ballet and tap to emerging styles such as hip hop. In addition to participating in courses with professional-level instruction and the opportunity to earn an associate degree, dance students may also participate in dance concerts. Specifically, original student and faculty works are staged twice a year in the fall and spring semesters. Students may also be invited to participate in the American College Dance Association and National Dance Day in the summer.

#### *Theatre Arts*

The Fresno City College Theatre Arts program provides students with valuable opportunities and experiences in an environment that embraces collaboration, equity, diversity, and inclusion onstage, as well as in the classroom. All stage productions utilize students in all roles including actors, technicians, crew, and designers, who then collaborate with professional staff, faculty, and guest artists. The Theatre Arts courses prepare students in the arts of fundamentals and intermediate-acting; fundamentals and intermediate scenic, costume, lighting, and make-up design and implementation; backstage crew positions; and stage management and stagecraft. During the spring semester, students have opportunities to attend the Kennedy Center American College Theatre Festival, work on a touring show focused on student outreach, and/or write, design, direct, and perform in student-produced productions.

## Humanities Division

The Humanities Division offers courses which enrich students' lives, while improving fundamental skills in reading and writing; courses that meet general education requirements; and courses of study to complete various associate degrees and lower division transfer requirements.

An integrated program of study in the humanities provides students with a foundation in the liberal arts that prepares them for further study in many different disciplines. The varied courses in the division examine the breadth of human experience through the study, analysis, and discussion of creative writing, composition, reading, literature, foreign languages, and philosophy in their cultural and historical contexts.

### Departments

#### Composition and Reading

This department offers English 1A (Reading and Composition) and English 1AH (Honors Reading and Composition), along with support classes to help students develop their writing and reading skills. These include English 205 (Accelerated Reading and Composition skills), which is taken concurrently with English 1A; English 105 (Grammar and Punctuation); English 126A (Academic Reading Efficiency); and English 300 (Academic Learning and Literacy Skills). English 1A is a general education course that is required for graduation.

#### Foreign Language

Our Foreign Language Program offers courses in American Sign Language, Armenian, Chinese, French, German, Hmong, Japanese, Portuguese, Spanish, and Spanish for Native Speakers, all with emphasis on communicative competence. Students learn the necessary skills that allow them to communicate in many different situations.

#### Letters

Letters courses provide students with skills to analyze and appreciate great works of literature, philosophy, and the arts. In addition, our Letters Program offers creative writing courses in poetry, fiction, autobiography, and play writing.

#### English for Multi-Lingual Students/ Linguistics

The EMLS/Linguistics Department offers two distinct programs. For English for Multi-Lingual Students needing to develop their reading, writing, grammar, and study skills, the department offers a sequential program designed to prepare students for an AA/AS degree and university transfer level courses. The department also offers non-credit, elective listening/speaking and pronunciation classes. Additionally, the department offers two Linguistics courses that satisfy transfer level area requirements.

#### Philosophy

In its courses and programs, the department emphasizes skills associated with careful, deliberative, and reflective thinking. We offer courses in critical thinking, ethics, metaphysics and epistemology, social and political philosophy, the history of philosophy, world religions, and logic.

### Associate in Arts Degrees

#### English

The English degree program offers students lower division subjects they will study as English majors in four-year college or university programs and/or prepares students for entry into career options requiring expertise in English language and literature.

#### Philosophy

The Philosophy major develops students' critical thinking and creative reasoning skills, enhances their ability to read complex material, and improves communication skills. These are valuable assets for transfer and career oriented students.

#### Spanish

The Spanish major prepares students for entry into a variety of career options requiring intermediate or better levels of fluency. The Spanish major also acquaints students with Spanish-speaking cultures.

### Certificate of Achievement

#### Sign Language Interpreting Preparation

This program is intended to prepare students to transfer to ASL interpreting programs. Students will learn foundational skills needed to interpret in settings such as schools, social service agencies and limited medical situations.

#### Humanities Division

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**Math, Science and Engineering Division**

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**Chemistry**

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**Mathematics**

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**Physical Sciences**

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## Math, Science and Engineering Division

The Math, Science and Engineering Division includes classes in the areas of study in Astronomy, Biology, Chemistry, Computer Science, Engineering, Geography, Geology, Mathematics, Natural Science, Physics, and Physical Science. The Math, Science and Engineering Division offers courses for fulfilling requirements in its own programs as well as programs offered by other divisions. Many of the courses are for students in transfer programs. These include courses, which fulfill lower division requirements for majors as well as courses taken for general education. The offering prepares students for continued study at four-year colleges and universities.

Pre-professional lower division curricula are available with majors in such fields as biology, biotechnology, chemistry, dentistry, engineering, forestry, geology, horticulture, mathematics, nursing, medicine, veterinary medicine, physics, pharmacy, and physical therapy. Honors classes are available as well.

Special classes in biology, chemistry, mathematics, and physical science are offered for students who need to develop skills in these subjects before taking more advanced courses.

The Division offers courses that satisfy the requirements of the Liberal Studies major at CSU, Fresno. The courses provide content in physical sciences (Natural Science 1A), biology (Biology 3), and geology (Geology 9).

Students interested in the sciences can participate in the Fresno City College Science and Engineering Club. Activities include seminars, numerous field experiences, as well as social outings. Students emphasizing medicine or veterinary medicine can participate in Fresno City College's Pre-Health Society.

The faculty encourages students to participate in numerous research and community activities from laboratory research to field studies. Students have participated in various summer internship programs throughout California and abroad; such as, NASA, Lawrence-Berkeley Laboratories, Forrest Service, California State Mining and Mineral Museum, and Sierra Foothills Conservancy.

### Biology

The Biology Department is housed in the Science Building at the southeast corner of the campus. There is an excellent greenhouse and natural History Museum available for tours or student use. With both the Sierra Nevada crest and the Pacific coast nearby there are numerous field trip opportunities that give the students an opportunity that is not available at many other institutions.

### Chemistry

The Chemistry Department is dedicated to its goal of preparing students for a career in Chemistry and for continuing education at a four-year college or university. The department consists of ten full-time faculty plus adjuncts. The department offers a wide selection of courses that could lead to Bachelor of Science degrees in programs such as Chemistry, Chemical Engineering, Chiropractic, Medicine, Pharmacy, Biotechnology, and Biochemistry. The Chemistry department is housed in the Math, Science and Engineering Building on the Southeast side of campus.

The Chemistry Department is very proud of its individual, specialized research spaces; laboratories and classrooms; instrument labs; both PC and Mac computer facilities and equipment; audio-visual and multi-media equipment; modern instruments such as FTIR and UV-Visible spectrometers, Atomic Absorption Spectrophotometer, H-1 and C-13 FT-NMR spectrometer, and Gas Chromatograph/Mass Spectrometer.

### Mathematics and Computer Science

The Mathematics Department is a service department by fulfilling Fresno City College's math graduation requirements for the AA and AS degrees, and courses for a graduation requirement for the various BA degrees offered at four-year institutions. The department provides courses for other Divisions of the college as well as for the Mathematics, Science and Engineering transfer student.

The Mathematics Department program offers courses in basic arithmetic skills, as well as prerequisite courses for science, engineering, and business courses. In addition, the department offers courses for students who intend to major in mathematics at a university.

The Computer Science program at Fresno City College, which parallels the first two year's offering at CSU, Fresno, stresses mathematics and programming techniques. Students planning to major in Computer Science are advised to complete Computer Science 40 and 41, along with Math 5A and 5B. Additional computer programming courses should be taken as necessary to expand the student's programming background.

Computer Science courses include Introduction to Programming Concepts and Methodologies (CSCI 1), Discrete Mathematics for Computer Science (CSCI 26), Programming Concepts and Methodology I (CSCI 40), Programming Concepts and Methodology II (CSCI 41), and Computer Architecture and Organization (CSCI 45).

The Mathematics Department is housed in the Science Building on the Southeast side of campus.

## Earth and Physical Science

The Earth and Physical Science Department includes Geography, Geology, Natural Science, and Physical Science. The two-year associate degree programs in Geography and Geology are primarily transfer programs.

Geology is the study of the structure, composition, and history of the earth's crust. By examining the surface of rocks and drilling to recover rock cores, the geologist is able to determine the types and distribution of rocks beneath the earth's surface. Geological training is also valuable in the pursuit of rock and mineral identification, conduct of geological surveys, drawing of maps, and collecting geological data and measurements. Knowledge of geology is invaluable in predicting future geological events such as earthquakes and volcanic eruptions.

## Astronomy, Engineering, and Physics

The Engineering program consists of four programs focused on Civil, Computer and Software, Electrical, and Mechanical, Aerospace, and Manufacturing Engineering. Mathematics, physics, chemistry, and introductory engineering courses such as circuit analysis, surveying, and statics make up the bulk of the engineering classes. The classes are designed so there is a smooth transfer to the candidate's chosen college or university.

Physics, the fundamental science, conceptualizes the principles of the universe and establishes the foundation for astronomy, chemistry, and geology. The beauty of physics is in a small number of powerful concepts which expand our view of the world around us and which lead to many engineering applications from which humans derive many benefits.

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### *Math, Science and Engineering Web Site Addresses*

#### Division

[www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/index.html](http://www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/index.html)

#### Biology, Chemistry, and Mathematics

[www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/biology.html](http://www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/biology.html)

[www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/chemistry.html](http://www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/chemistry.html)

[www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/mathematics.html](http://www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/mathematics.html)

#### Sciences: Engineering, Geology, and Physics

[www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/engineering.html](http://www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/engineering.html)

[www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/geology.html](http://www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/geology.html)

[www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/physics.html](http://www.fresnocitycollege.edu/academics/divisions/math-science-and-engineering-division/physics.html)

**Social Sciences Division**

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soc@fresnocitycollege.edu

**Social Sciences Division**

The aim of Social Sciences is to provide an appreciation of the rich diversity and the fundamental commonality of all human experience. The Social Sciences constitute studies in human behavior, both past and present, individual and collective, legal and illegal, distant and local. The intention is to search for greater social justice, personal freedom and mutual understanding. The Division is divided into six departments:

- Anthropology and Economics including: Archaeology
- Cultural and Women's Studies including: African-American Studies  
American Indian Studies  
American Studies  
Asian-American Studies  
Chicano-Latino Studies  
Women's Studies
- History and Political Science
- Child Development and Education
- Psychology
- Criminology, Human Services, Sociology, including: Culinary Arts Food and Nutrition Food Service Management

Courses offered satisfy transfer and associate degree general education requirements.

**Career Training**

The Social Sciences Division also offers career training in:

- Alcohol and Drug Abuse Counseling
- Archaeology Technician
- Child Development
- Child Nutrition
- Corrections
- Criminology
- Culinary Arts
- Dietary Aide
- Dietetic Service Supervisor
- Food Service Management
- Law Enforcement
- Social Work

Students may select a training program leading to a certificate, a certificate of achievement or an associate in science degree. Certificate programs require occupational courses only and vary between 6 and 40 units of course work. The associate in science degree mandates a minimum of 60 units, consisting of the major, electives, and required courses in general education.

The Social Sciences Division is also home to the Fresno City College Anthropology Museum and the Child Development Center. It coordinates programs in Foster Care, Independent Living, and programs for foster youth.



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# DISTRICT COURSES AND PROGRAMS

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Fresno City College is a sister institution of Reedley College and Clovis Community College within the State Center Community College District, and students may register at one institution or all institutions concurrently. As the registration procedures may differ slightly, students interested in enrolling for courses at Fresno City College should contact the Admissions Office on either campus for further information and direction.

Each college of the District offers certain programs/courses which are unique and not offered at the other campus. Following is a partial list of those programs/courses offered at Fresno City College that are not offered on the Reedley College campus:

- Administration of Justice
- Aerospace Studies
- African-American Studies
- American Studies
- American Indian Studies
- Applied Technology
- Architecture
- Asian-American Studies
- Automotive Collision Repair Technology
- Automotive Technology General Motors ASEP
- Business & Technology
- Computer Aided Drafting and Design
- Computer Aided Manufacturing
- Construction
- Cultural Studies
- Dental Hygiene
- Drafting
- Electrical Systems Technology
- Fire Academy
- Fire Technology

- Graphic Communications
- Health Information Technology
- Heating, Ventilation, and Air Conditioning
- Marketing
- Military Science
- Networking/Computer Technician
- Paralegal
- Police Academy
- Real Estate
- Radiologic Technology
- Respiratory Care
- Welding Technology

## Career & Technology Center

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Career & Technology Center is a significant resource to both its students and the community. CTC staff identifies job skills employers in local industry need and then provides training to help students acquire those skills. Year-round registration is in effect. Noncredit, open-entry classes are offered in:

- Auto Collision Repair
- Industrial Training/Warehouse Distribution
- Maintenance Mechanic
- Manufacturing Mechanic

For additional information, write or call the Center.

### **Career & Technology Center**

**2930 East Annadale Avenue, Fresno, CA 93725  
(559) 265-5700**

## Reedley College

Additional programs/courses available only at Reedley College:

- Aeronautics
- Agri-Business
- Animal Science
- Dental Assisting
- Forest/Park Technology
- General Agriculture
- Landscape Horticulture
- Mechanized Agriculture
- Natural Resources
- Office Technology
- Plant Science: Grape and Tree Fruit Management

Further information on these programs/courses can be obtained by writing or calling:

**Reedley College**  
**995 North Reed Avenue**  
**Reedley, CA 93654**  
**(559) 494-3000**

## Madera Community College

Madera Community College is located on Avenue 12 just east of Highway 99 south of the City of Madera. The college offers a wide variety of academic and occupational programs and opportunities for students.

**Madera Community College**  
**30277 Avenue 12**  
**Madera, CA 93638**  
**(559) 675-4800**

### *Madera Community College at Oakhurst*

Madera Community College at Oakhurst is located in the Central Business District of Oakhurst. The various programs are taught in relocatable classrooms arranged into a small campus setting. Students can complete courses leading to an associate degree and/or transfer program.

**Madera Community College at Oakhurst**  
**40241 Highway 41, Building Site G,**  
**Oakhurst, CA 93644**  
**(559) 683-3940**

## Clovis Community College

Clovis Community College is located at Willow and International avenues in Fresno across the street from the Clovis Unified School District Third Education Center. The college offers over 400 courses annually in 40 areas of study.

**Clovis Community College**  
**10309 N. Willow**  
**Fresno, CA 93730**  
**(559) 325-5200**



# ASSOCIATE DEGREES FOR TRANSFER

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses. Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units. To view the most current list of Fresno City College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to <http://www.icangotocollege.com>. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

## ALLIED HEALTH

### PUBLIC HEALTH SCIENCE FOR TRANSFER – MAJOR #8400

The Associate in Science in Public Health Science for Transfer is designed for students who plan to complete a bachelor's degree in Health Science at a CSU or UC campus. An Associate in Science in Public Health Science focuses on competencies that include knowledge of public health models, health risk assessments, health screenings, health promotion programming, surveillance of disease outbreaks and injury prevention strategies for a community. The public health field includes disciplines such as patient health navigator, health education outreach, epidemiology, biostatistics, health services, environmental health, behavioral health, and occupational health. The Public Health Science Associate in Science for Transfer provides preparedness in these job related career paths. To earn the Associate in Science in Public Health Science for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 33 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN SCIENCE DEGREE

#### Student Learning Outcomes:

1. Demonstrate the ability to comprehend and apply the multi-dimensional approach of public health sciences.
2. Identify proactive factors for disease prevention and risk factors for disease and disability.
3. Demonstrate and apply behavior-changing techniques to maximize health and wellness.
4. Demonstrate the concepts of research, program planning and evaluation strategies.

#### REQUIRED COURSES

	Units
AHLTH 1	Introduction to Public Health ..... 3
BIOL 5	Human Biology ..... 4
BIOL 20	Human Anatomy, <i>and</i>
BIOL 22	Human Physiology, <i>or</i>
BIOL 21A	Human Anatomy & Physiology I, <i>and</i>
BIOL 21B	Human Anatomy & Physiology II ..... 9
CHEM 3A	Introduction to General Chemistry ..... 4
HLTH 1	Contemporary Health Issue ..... 3
MATH 11	Elementary Statistics ..... 4
PSY 2	General Psychology ..... 3

Select a Minimum of 3 Units from the Following:		Units
AHLTH 2	Health and Social Justice .....	3
ECON 40	Introduction to Microeconomics .....	3
ECON 50	Introduction to Macroeconomics.....	3
FN 40	Nutrition .....	3
HLTH 2	First Aid and Safety .....	3
PSY 25	Human Sexuality .....	3
Total		33

## ANTHROPOLOGY FOR TRANSFER

– MAJOR #7150

Anthropology is a program designed to acquaint students with human diversity through a broad approach to the study of people. Anthropology is a program designed to acquaint students with human diversity through a broad approach to the study of people including the prehistoric, biological, and cultural perspectives. Because of its wide coverage, anthropology provides a versatile background that serves as a solid foundation for careers in many fields and vocations. The Associate in Arts in Anthropology for Transfer degree is designed for students who plan to complete a bachelor's degree in Anthropology at a CSU campus. The Associate in Arts in Anthropology for Transfer degree requires (1) The completion of 60 semester units that 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 in the Anthropology major. (2) Obtainment of a minimum grade point average of 2.0 and the grade of C or better in all courses required for the major. Students are strongly encouraged to meet with a counselor about transfer requirements (IGETC/CSU) early in their program. Anthropology students should also meet with anthropology faculty about course/program offerings as soon as possible once the major has been declared in order to complete the program in a timely manner.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate an understanding of anthropological approaches to the study of humanity: cross-cultural comparison and cultural relativity, holism, and evolutionary theory, and the uses of each.
2. Describe the breadth of anthropology and be able to characterize anthropology's distinctive methodological approaches with respect to the different subdisciplines.
3. Demonstrate understanding of human cultural diversity and biological variation through time.

### REQUIRED CORE COURSES (3 courses or 9 units minimum)

		Units
ANTHRO 1	Biological Anthropology.....	3
ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology .....	3
ANTHRO 4	Introduction to Archaeology .....	3

#### Select 3-4 units from the following:

ANTHRO 1L	Biological Anthropology Laboratory.....	1
ANTHRO 3	Archaeology and World Prehistory .....	3
ANTHRO 8	Language and Culture, <i>or</i> LING 10 Introduction to Language .....	3
ANTHRO 13	Anthropology of Magic, Witchcraft, and Religion.....	3

#### Select 3-8 units from the following courses or any courses not used in the section above:

BIOL 20	Human Anatomy	4
GEOL 1	Physical Geology .....	4
GEOL 9	Introduction to Earth Science .....	4
PSY/MATH 42	Statistics for the Behavioral Sciences, <i>or</i> MATH 11 Elementary Statistics.....	4

#### Select 3-4 units from the following courses or any course not used in the sections above:

AFRAM 1	Introduction to African American Studies	3
AMIND 31	American Indian Culture.....	3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society.....	3
ANTHRO 12	Visual Anthropology: Introduction to Ethnographic Film.....	3
ANTHRO 15	Laboratory Methods in Archaeology.....	4
ANTHRO 16A	Field Archaeology I .....	2
ANTHRO 16B	Field Archaeology II .....	2
ANTHRO 24	Doing Archaeology: Hands-On!.....	1.5
ANTHRO/CLS 28	Ancient Mexico .....	3
ASAMER 15	Introduction to Asian-Americans.....	3
ASL 5	Deaf Culture .....	3
CLS 11	Introduction to Chicano-Latino Studies.....	3
JOURN 16	Race, Gender, and the Media.....	3
WSTS 10	Changing Roles of Women.....	3

## ART

### ART HISTORY FOR TRANSFER – MAJOR #5206

The Associate in Arts in Art History for Transfer Degree offers a core foundation for the study of art history across cultures and eras. The program prepares students to continue their studies towards a degree in art history or studio arts at the California State University (CSU) and the University of California (UC) systems. Students will learn skills of analyzing art within its historical and cultural context using art-specific terminology and methodologies. To earn the Associate in Arts in Art History for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18-20 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

#### ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Analyze a variety of techniques and formal visual elements of individual works of art in different media and diverse cultures.
2. Define and differentiate various styles of art throughout history.
3. Evaluate works of art in relation to context, historical background, and influence on subsequent artistic periods.
4. Compare stylistic elements that distinguish aesthetic and cultural trends.

REQUIRED CORE		Units
ART 5/5H	Art History Ancient to Medieval, <i>or</i> Honors Art History Ancient to Medieval .....	3
ART 6/6H	Art History Renaissance to Modern, <i>or</i> Honors Art History Renaissance to Modern ....	3
ART 7	Beginning Drawing.....	3
LIST A: Select one of the following: Units		
ART 55	Introduction to Asian Art .....	3
ART 60	Art of the Ancient Americas .....	3
LIST B: Select one of the following: Units		
ART 3	Two-Dimensional Design .....	3
ART 4	Three-Dimensional Design.....	3
ART 8	Beginning Figure Drawing and Anatomy .....	3
ART 9	Beginning Painting: Oil/Acrylic .....	3
ART 10	Beginning Ceramics .....	3
ART 11	Beginning Sculpture.....	3
ART 14	Beginning Printmaking.....	3
ART 52	Introduction to Digital Art/New Media .....	3

LIST C: Select one of the courses below or one from List A or List B not already taken:

	Units	
AFRAM 3	African-American Art..... 3	
AMIND 35	American Indian Art..... 3	
ANTHRO 3	Archaeology and World Prehistory..... 3	
ANTHRO 4	Introduction to Archaeology .....	3
ARCH 15A	History of Architecture I..... 3	
ARCH 15B	History of Architecture II..... 3	
ART 70	Modern and Contemporary Art..... 3	
CLS 20	Chicano Art .....	3
FILM 1	Introduction to Film Studies .....	3
FILM 3	Film and Culture .....	3
FRENCH 1	Beginning French..... 5	
FRENCH 2	High-Beginning French..... 5	
FRENCH 3	Intermediate French..... 5	
GERMAN 1	Beginning German .....	5
GERMAN 2	High-Beginning German .....	5
HUMAN 10	Classical Humanities..... 3	
HUMAN 11	Modern Humanities..... 3	
PHIL 1A	Theories of Knowledge and Reality..... 3	
PHIL 1D	World Religions .....	3
SPAN 1	Beginning Spanish..... 5	
SPAN 2	High-Beginning Spanish..... 5	
SPAN 3	Intermediate Spanish..... 5	
SPAN 4	High-Intermediate Spanish..... 5	
Total		18-20

### STUDIO ARTS FOR TRANSFER – MAJOR #5250

An Associate in Arts in Studio Arts for Transfer is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. An Associate in Arts in Studio Arts for Transfer is a great way to develop critical and creative problem solving skills, enhance an ability to analyze complex visual information, and improve communication skills. These assets will be valuable as a transfer student to a four-year institution, whether you major in art or some other field, and will enhance your preparation for a wide range of career opportunities. To earn the Associate in Arts in Studio Arts for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 24 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

## ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Apply knowledge of art fundamentals in order to identify, formulate, and resolve basic art and design problems.
2. Understand and use a variety of media and processes to accomplish artistic goals.
3. Demonstrate an ability to critique and analyze artwork visually, orally and in writing.
4. Understand the impact of art making in a global and societal context.

REQUIRED CORE (12 Units) Units

*ART 3	Two-Dimensional Design .....	3
*ART 4	Three-Dimensional Design.....	3
ART 6/6H	Art History Renaissance to Modern, <i>or</i> Honors Art History Renaissance to Modern .....	3
*ART 7	Beginning Drawing.....	3

LIST A: Select One (3 units) Units

ART 5/5H	Art History Ancient to Medieval, <i>or</i> Honors Art History Ancient to Medieval .....	3
ART 55	Introduction to Asian Art .....	3
ART 60	Art of the Ancient Americas .....	3

## LIST B: Select three courses (9 units)

Select one course from three of the following areas (Drawing, Painting, Printmaking, Ceramics, Sculpture, or Applied Drawing)

	Units	
ART 8	Beginning Figure Drawing and Anatomy, <i>or</i>	
ART 17	Intermediate Drawing, <i>or</i>	
ART 18	Intermediate Figure Drawing and Anatomy.....	3
ART 9	Beginning Painting: Oil/Acrylic, <i>or</i>	
ART 13	Beginning Watercolor Painting, <i>or</i>	
ART 19	Intermediate Painting: Oil/Acrylic, <i>or</i>	
ART 29	Advanced Painting: Oil/Acrylic.....	3
ART14	Beginning Printmaking, <i>or</i>	
ART 24A	Intaglio Printmaking, <i>or</i>	
ART 24B	Lithograph Printmaking, <i>or</i>	
ART 24C	Relief Printmaking, <i>or</i>	
ART 24D	Screenprinting .....	3
ART 10	Beginning Ceramics, <i>or</i>	
ART 20	Intermediate Ceramics .....	3
ART 11	Beginning Sculpture, <i>or</i>	
ART 15	Ceramic Sculpture, <i>or</i>	
ART 21	Intermediate Sculpture .....	3
ART 12A	Craft Workshop: Living Traditions, <i>or</i>	
ART 12B	Intermediate Craft Workshop: Living Traditions, <i>or</i>	
ART 22B	Craft Workshop: Concepts in Fibers, <i>or</i>	
ART 32A	Beginning Jewelry and Metalsmithing .....	3

\*ART 3, ART 4, and ART 7 should be taken before the other courses in the major.

## BIOLOGY FOR TRANSFER

– MAJOR #6082

The goal of the Associate in Science in Biology for Transfer program at Fresno City College is to award students with an associate degree, and provide them with special benefits/guarantees upon transfer to a CSU baccalaureate program in Biology. This degree may also prepare students to transfer into a UC baccalaureate program in Biology. To earn the Associate in Science in Biology for Transfer, students must complete 60 semester units or 90 quarter units that 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. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. Local graduation requirements are not required for the transfer degree. Please speak with a transfer counselor for more information about the benefits of the Associate of Science in Biology for Transfer and the Associate of Science degree.

## ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Evaluate scientific literature and apply the scientific method to obtain and interpret data.
2. Understand the function of organic molecules in biological systems and relate organelle structure to cellular function.
3. Understand the structure and function of genetic material and apply the principles of genetics as they relate to organisms.
4. Understand the biodiversity of life on earth based on modern classification systems.
5. Understand the ecological relationships between organisms and the environment, and the impact of human activity on ecological systems.
6. Understand the scientific evidence for evolution and explain the mechanisms leading to evolutionary change over time.

REQUIRED CORE Units

BIOL 11A	Biology for Science Majors I .....	5
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CHEMISTRY & MATH REQUIREMENTS Units

CHEM 1A	General Chemistry, <i>and</i>	
CHEM 1B	General Chemistry and Qualitative Analysis .....	10
MATH 5A	Mathematical Analysis I .....	5

SELECT ONE SEQUENCE: Units

BIOL 11B	Biology for Science Majors II, <i>or</i> .....	5
BIOL 4	Principles of Zoology, <i>and</i>	
BIOL 6	Principles of Botany.....	10

SELECT ONE PHYSICS SEQUENCE:		Units
PHYS 2A	General Physics 1, <i>and</i>	
PHYS 2B	General Physics 2, <i>or</i> .....	8
PHYS 4A	Physics for Scientists and Engineers, <i>and</i>	
PHYS 4B	Physics for Scientists and Engineers .....	8
Total		33-38

## BUSINESS ADMINISTRATION FOR TRANSFER - MAJOR #2049

Business is an exciting major for students with a variety of interests and career goals including options in entrepreneurship, marketing, business law, management, computer information systems, accounting, and finance. The Associate in Science in Business Administration for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the Associate in Science in Business Administration degree, students must complete 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 27 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students must consult with a counselor when planning to complete the degree for additional information on university admission and transfer requirements. In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Science in Business Administration for Transfer degree.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. Apply knowledge of major business functions (accounting, quantitative, law, computer, and business concepts) and its methodologies and ethical applications in common business situations.
2. Apply professional behaviors in both business and personal situations.

REQUIRED CORE		Units
ACCTG 4A	Financial Accounting.....	4
ACCTG 4B	Managerial Accounting .....	4
BA 18	Business and the Legal Environment.....	4
CIT 15	Computer Concepts .....	3
*ECON 40/40H	Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics.....	3
*ECON 50/50H	Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics.....	3
Choose 2 of the following:		Units
BA 10	Introduction to Business .....	3
*DS 21	Finite Mathematics.....	3
*DS 23	Business Statistics.....	3
Total		27

\*May be used to fulfill General Education requirements.

## CHICANO-LATINO STUDIES

### SOCIAL JUSTICE STUDIES, CHICANO STUDIES FOR TRANSFER — MAJOR #7662

Social Justice Studies was created as an "Area of Emphasis" Associates Degree for Transfer (ADT). This ADT includes Programs in Cultural or Ethnic Studies and Women's Studies, and is designed to give students a broad background in the histories of various racial and ethnic groups, and the contemporary challenges faced by these groups in our society. Social Justice is the basic principle that all members of a society are entitled to equal rights and opportunities, and Social Justice Studies seeks to examine existing inequities, particularly as they relate to race, ethnicity, gender, and sexuality. The Social Justice Studies ADT in Chicano Studies is designed to transfer into the CSU system, and can be used as the foundation for a Bachelor's Degree in the following areas: American Studies, Chicana and Chicano or Mexican American Studies, and Comparative Ethnic Studies. To earn the Associate in Arts in Social Justice for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate academic preparedness for transfer to a four-year college.
2. Examine and appraise the intersections of race, class, gender, religion and other cultural indicators in issues of social justice in the United States.
3. Compare and contrast the primary goals of social justice movements of the 20th century and evaluate correlations to contemporary social justice movements.
4. Students will demonstrate critical thinking and problem solving skills across disciplines as they relate to the Chicano-Latino community.
5. Students will acquire a comprehensive knowledge and understanding of Chicano-Latino history, culture, arts, and socio-political issues.
6. Students will demonstrate a commitment to active citizenship, and develop leadership skills and an understanding of social justice principles and their application in order to promote positive social change in the Chicano-Latino community and the broader society.

REQUIRED CORE COURSES		Units
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society .....	3
CLS 12	Mexican American History .....	3
WSTS 10	Changing Roles of Women.....	3
Select three (3) courses from at least two of the following areas:		
Area 1: History or Government		Units
CLS 29	History Of Mexico, Colonial to Contemporary Period .....	3
Area 2: Arts and Humanities		Units
CLS 20	Chicano Art .....	3
CLS 21	Chicano Literature.....	3
Area 3: Social Science		Units
CLS 11	Introduction to Chicano-Latino Studies.....	3
CLS 30	Migration and the Family: Social and Psychological Perspectives.....	3
Area 4: Major Preparation		Units
CLS 13	Politics and the Chicano-Latino Community.....	3
CLS 14	Sociology of the Mexican American Community..	3
Total		18

3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the early care and education profession.

REQUIRED COURSES		Units
CHDEV 1	Principles and Practices of Teaching Young Children .....	3
CHDEV 3	Introduction to Curriculum.....	3
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education .....	3
CHDEV 15	Diversity and Culture in Childhood Education Programs.....	3
CHDEV 20	Observation and Assessment .....	3
CHDEV 30	Child, Family and Community.....	3
CHDEV 37A	Early Childhood Practicum.....	3
CHDEV 39	Child Growth and Development.....	3
Total		24

## CHILD DEVELOPMENT

### EARLY CHILDHOOD EDUCATION FOR TRANSFER — MAJOR #5605

Majoring in Child Development prepares students for jobs in a variety of early care and education settings as well as in related fields working with children and families. The associate in science in Early Childhood Education for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the associate in science transfer degree, students must complete 60 semester or 90 quarter units that are eligible for transfer to the CSU including either IGETC or CSU GE Breadth and at least 18 units, as defined by the community college, in a major or area of emphasis. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.
2. Design, implement and evaluate environments and activities that support positive developmental play and learning outcomes for all young children.

## CULTURAL STUDIES

### SOCIAL JUSTICE STUDIES, GENERAL FOR TRANSFER — MAJOR #7663

Social Justice Studies was created as an "Area of Emphasis" Associates Degree for Transfer (ADT). This ADT includes Programs in Cultural or Ethnic Studies and Women's Studies, and is designed to give students a broad background in the histories of various racial and ethnic groups, and the contemporary challenges faced by these groups in our society. Social Justice is the basic principle that all members of a society are entitled to equal rights and opportunities, and Social Justice Studies seeks to examine existing inequities, particularly as they relate to race, ethnicity, gender, and sexuality. The Social Justice Studies ADT is designed to transfer into the CSU system, and can be used as the foundation for a Bachelor's Degree in the following areas: American Indian Studies, African American or Africana Studies, American Studies, Asian American Studies, Chicana and Chicano or Mexican American Studies, Comparative Ethnic Studies, Gender Studies, Women's Studies, Labor Studies, and some Sociology Programs. To earn the Associate in Arts in Social Justice for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

**ASSOCIATE IN ARTS DEGREE**

*Student Learning Outcomes:*

1. Demonstrate academic preparedness for transfer to a four-year college.
2. Examine and appraise the intersections of race, class, gender, religion and other cultural indicators in issues of social justice in the United States.
3. Compare and contrast the primary goals of social justice movements of the 20th century and evaluate correlations to contemporary social justice movements.

**REQUIRED CORE COURSES** Units

AFRAM 1	Introduction to African American Studies, <i>or</i>	
AMIND 31	American Indian Culture, <i>or</i>	
ASAMER 15	Introduction to Asian-Americans, <i>or</i>	
CLS 11	Introduction to Chicano-Latino Studies .....	3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society .....	3
WSTS 10	Changing Roles of Women.....	3

Select three (3) courses from at least two of the following areas:

**Area 1: History or Government** Units

AFRAM 4	Classical and Pre Colonial Africa .....	3
AFRAM 34	History of the American Civil Rights Movement...	3
AMST 11	Law and Democracy .....	3
CLS 29	History Of Mexico, Colonial to Contemporary Period .....	3

**Area 2: Arts and Humanities** Units

AFRAM 3	African-American Art.....	3
AFRAM 8	African-American Creative Workshop.....	3
AFRAM 15	African American Music .....	3
AMIND 35	American Indian Art .....	3
ASAMER 8	Chinese Culture .....	3
CLS 17A	Beginning Mexican Folk Dance.....	3.5
CLS 20	Chicano Art .....	3
CLS 21	Chicano Literature.....	3
CLS 22	Art of the Ancient Americas .....	3
CLS 27B	Advanced Mexican Folk Dance.....	3.5
WSTS 36	Women's Literature.....	3

**Area 3: Social Science** Units

AMIND 31	American Indian Culture.....	3
AMIND 34	The American Indian in Contemporary Society.....	3
ASAMER 1	Indo-Chinese Americans.....	3
ASAMER 15	Introduction to Asian-Americans.....	3
CLS 12	Mexican American History .....	3
WSTS 47	Introduction to Lesbian and Gay Studies.....	3

**Area 4: Major Preparation** Units

AFRAM 2	African American Cultural Adaptation.....	3
ASAMER 25	Asian American Social Issues .....	3
ASAMER 55	Introduction to Asian Art .....	3
CLS 13	Politics and the Chicano-Latino Community.....	3
CLS 14	Sociology of the Mexican American Community..	3
CLS/WSTS 24	La Chicana and Latina.....	3
Total		18-19

**COMMUNICATION STUDIES FOR TRANSFER**

**FORMERLY SPEECH – MAJOR #5432**

The Associate in Arts in Communication Studies for Transfer degree program is designed to prepare students for further study or employment in fields requiring effective and ethical human communication. Communication courses focus on how people use messages to generate meanings within and across various contexts, cultures, channels and media.

The Associate in Arts in Communication Studies for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the Comm. Studies AA-T degree, students must complete a minimum of 60 required semester units of CSU-transferable coursework, including (i) the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements, and (ii) the 18 semester units specified by the Communication Studies degree. These requirements must be obtained with a minimum GPA of 2.0. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

**ASSOCIATE IN ARTS DEGREE**

*Student Learning Outcomes:*

1. Demonstrate understanding of core communication theories and principles.
2. Organize, develop, and deliver an effective presentation.
3. Critically evaluate various communication situations.

**REQUIRED CORE COURSES** Units

COMM 1	Introduction to Public Speaking .....	3
COMM 2	Interpersonal Communication .....	3
COMM 4	Persuasion .....	3
COMM 8	Group Communication.....	3
COMM 25	Argumentation.....	3
Total		15

**Choose 3 units from the following:** Units

COMM 20	Community Involvement .....	2-3
COMM 26	Intercollegiate Forensics Laboratory.....	1-3
JOURN 1	Introduction to Mass Communication .....	3
JOURN 3	Newswriting .....	3

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## CRIMINOLOGY

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### ADMINISTRATION OF JUSTICE FOR TRANSFER

– MAJOR #7750

Administration of justice is the study of the causes, consequences, and control of crime. The program leading to the Associate in Science in the Administration of Justice for Transfer [AS-T] is designed to acquaint students with the principles and practices of criminal justice systems in America. The curriculum allows for the development of depth in one of the subject's subsystems (law enforcement, juvenile, courts, or corrections), and also gain familiarity with the basics of all areas. It is both academic and professional in that it is an interdisciplinary attempt to relate intellectual issues and practitioner perspectives to the challenge of crime in a free society. It provides the information necessary for employment with a related agency and/or transfer to a college or university. Those completing the AS-T in Administration of Justice will be able to transfer to the California State University System, and be prepared to study in Administration of Justice, Law Enforcement, Correctional Administration, Social Science, and Pre-Law. Upon completion students will be prepared to pursue a BA/BS in Criminal Justice. To earn the transfer degree students must complete a minimum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18-20 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Reflect critically on developments in criminal justice policy and the relationship of those policies to the wider political and social environment.
2. Compare and evaluate diverse and competing arguments in disciplinary (justice system) and interdisciplinary contexts.
3. Demonstrate knowledge of the history, structure and processes of law enforcement, the judicial system, the correctional system, and juvenile justice system.
4. Define and utilize key terms, concepts, and theories in the criminal justice system.
5. Interpret, assess, and compare competing types of evidence and data.
6. Effectively communicate orally and in writing the results of their analysis and conclusions.

REQUIRED CORE		Units
CRIM 1	Introduction to Criminology .....	3
CRIM 6	Concepts of Criminal Law .....	3
Select two courses from the following:		Units
CRIM 3	Legal Aspects of Evidence .....	3
CRIM 4	Principles & Procedures of the Justice System ....	3
CRIM 5	Community Relations .....	3
CRIM 8	Criminal Investigation .....	4
CRIM 9	Crime Scene Forensic Evidence .....	3
CRIM 11	Juvenile Delinquency .....	3
CRIM 20	Introduction to Corrections .....	3
Select two courses from the following:		Units
CRIM 13	The Constitution and Your Individual Rights .....	3
MATH/PSY 42	Statistics for the Behavioral Sciences, <i>or</i>	
MATH 11	Elementary Statistics .....	4
PSY 2/2H	General Psychology, <i>or</i>	
	Honors General Psychology .....	3
SOC 1A/1AH	Introduction to Sociology, <i>or</i>	
	Honors Introduction to Sociology .....	3
		Total 18-20

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## ECONOMICS FOR TRANSFER

– MAJOR #2020

The Associate in Arts in Economics for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. This degree will acquaint students with the fundamentals of economic thinking and the principle concepts and theories of macroeconomics and microeconomics. Additionally, the degree will offer students the math and statistics preparation required for upper division coursework in economics. To earn the Associate in Arts in Economics for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

1. Understand and apply basic economic methodology to describe, analyze and explain human behavior and societal challenges.
2. Apply principle microeconomic and macroeconomic concepts, theories and models to describe, analyze and explain relevant economic issues.



REQUIRED COURSES		Units
ECON 40/40H	Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics.....	3
ECON 50/50H	Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics.....	3
MATH 5A	Elementary Statistics .....	5
MATH 42	Statistics for the Behavioral Sciences, <i>or</i> MATH 11 Elementary Statistics, <i>or</i> DS 23 Business Statistics.....	3-4
Choose two of the following courses:.....		Units
ACCTG 4A	Financial Accounting.....	4
ACCTG 4B	Managerial Accounting .....	4
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4
MATH 21	Finite Mathematics.....	3
MATH 26	Elementary Linear Algebra.....	3
Total		20-23

## EDUCATION

### ELEMENTARY TEACHER EDUCATION FOR TRANSFER – MAJOR #5920

The Associate in Arts in Elementary Teacher Education for Transfer Degree is designed for students planning to transfer to a four-year university ready to continue for a bachelor's degree in Liberal Studies and a preliminary Multiple Subject Elementary Teaching Credential. To earn the Associate in Arts in Elementary Education for Transfer degree, students must complete 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. California teaching credential requirements are subject to change; consult with a counselor each semester to ensure compliance with state regulations and transfer requirements.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

1. Demonstrate introductory subject matter competency required for the teaching at the elementary school level.
2. Demonstrate knowledge of social, cultural, environmental, and aesthetic perspectives necessary for teaching at the elementary school level.
3. Discuss historical influence and current trends in education, as well as teaching strategies and approaches appropriate for students of diverse, needs, abilities and backgrounds.

### PROGRAM REQUIREMENTS

Required 47 units of core courses		Units
BIOL 3	Introduction to Life Science.....	4
CHDEV 39	Child Growth and Development.....	3
COMM 1	Introduction to Public Speaking .....	3
EDUC 19	Work Experience (Cooperative), Occupational.....	1
EDUC 30	Introduction to Teaching.....	3
ENGL 1A/1AH	Reading and Composition, <i>or</i> Honors Reading and Composition .....	4
ENGL 1B	Introduction to the Study of Literature .....	3
GEOG 4A	World Geography .....	3
GEOG 4B	World Geography .....	3
GEOL 9	Introduction to Earth Science .....	4
HIST 11	History of the United States to 1877.....	3
HIST 20	World History I, to 1600.....	3
MATH 10A	Structure and Concepts in Mathematics I.....	3
NATSCI 1A	Integrated Science: Physics and Chemistry .....	4
POLSCI 2/2H	American Government, <i>or</i> Honors American Government.....	3
List A: Select 1 course from the following:		Units
ENGL 3/3H	Critical Reading & Writing, <i>or</i> Honors Critical Reading & Writing, .....	3
PHIL 2/2H	Critical Reasoning and Analytic Writing, <i>or</i> Honors Critical Reasoning and Analytic Writing.....	3
List B: Select 1 course from the following:		Units
ART 2	Art Appreciation .....	3
ART 5/5H	Art History Ancient to Medieval, <i>or</i> Honors Art History Ancient to Medieval .....	3
ART 6/6H	Art History Renaissance to Modern, <i>or</i> Honors Art History Renaissance to Modern .....	3
MUS 12	Music Appreciation.....	3
TA 30	Theatre Appreciation .....	3
List C: Select 1 course from the following:		Units
AFRAM/ENGL 17	African-American Literature.....	3
ART 7	Beginning Drawing.....	3
ART 9	Beginning Painting: Oil/Acrylic.....	3
ART 10	Beginning Ceramics.....	3
ART 11	Beginning Sculpture.....	3
ART 12A	Craft Workshop: Living Traditions .....	3
ART 15	Ceramic Sculpture.....	3
ART 17	Intermediate Drawing .....	3
ART/ASAMER 55	Introduction to Asian Art .....	3
CLS 21	Chicano Literature.....	3
COMM/TA 12	Fundamentals of Oral Interpretation .....	3
HIST 1	Western Civilization to 1648 .....	3
MUS 3	Music Fundamentals.....	3
MUS 13	History of Music.....	3
Total		56

## ENGLISH FOR TRANSFER – MAJOR #5305

The Associate in Arts in English for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. A degree in English is considered a rigorous, complementary education for careers in the legal field, editing, interpreting, translation, and teaching at the K-12 and college levels. To earn the Associate in Arts in English for Transfer degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Read and critically evaluate college-level material from various sources through analysis and synthesis of information.
2. Write appropriately documented argumentative essays and research papers to deal with the ideas by definition, evaluation, interpretation, and persuasion.
3. Analyze and respond in writing to a variety of literature, including short fiction, poetry, drama, novels, and other genres, concerning thematic, rhetorical, and symbolic elements.
4. Write about and analyze the various literary elements such as plot, characterization, setting, voice, meter and tragedy in selected works.
5. Demonstrate an understanding of the importance of the assigned works to various time periods and cultures, and to literary tradition.

### MAJOR CORE

English 1A/1AH is a prerequisite to major core courses; it also meets writing/reading competency and general education area D1.

MAJOR CORE	Units
ENGL 1B Introduction to the Study of Literature .....	3
ENGL 3 Critical Reading and Writing .....	3

### MAJOR COURSE OPTIONS - Section A

Select one of the course sequences (6 units total) from the following list:

ENGL 44A	World Literature to the Renaissance, <i>and</i>	
ENGL 44B	World Literature since the Renaissance, <i>or</i>	
ENGL 46A	English Literature to 1800, <i>and</i>	
ENGL 46B	English Literature from 1800 to the Present, <i>or</i>	
ENGL 48A	Introduction to American Literature to 1865, <i>and</i>	
ENGL 48B	Introduction to American Literature 1865 to the Present.....	6

### MAJOR COURSE OPTIONS - Section B

Units

Select either six (6) units from Section B, or three (3) units from Section B and three (3) units from Section C (Courses taken to meet Section A above cannot be used to fulfill Section B):

ENGL 14	Folklore.....	3
ENGL 15A	Creative Writing: Poetry .....	3
ENGL 15B	Creative Writing: Fiction.....	3
ENGL/TA15C	Creative Writing: Playwriting.....	3
ENGL/AFRAM 17	African-American Literature.....	3
ENGL 20	Asian American Literature .....	3
ENGL/HUM 42	Classic Myths .....	3
ENGL 44A	World Literature to the Renaissance .....	3
ENGL 44B	World Literature since the Renaissance .....	3
ENGL 45	Contemporary World Literature .....	3
ENGL 46A	English Literature to 1800 .....	3
ENGL 46B	English Literature from 1800 to the Present .....	3
ENGL 48A	Introduction to American Literature to 1865 .....	3
ENGL 48B	Introduction to American Literature 1865 to the Present .....	3
LING 10	Introduction to Language .....	3
<b>SECTION C</b>		<b>Units</b>
ENGL 12	The Bible as Literature.....	3
ENGL 15D	Creative Writing: Creative Nonfiction .....	3
ENGL/WSTS 36	Women's Literature.....	3
ENGL 40	Themes in Literature.....	3
ENGL 47	Introduction to Shakespeare .....	3
		<b>Total</b>
		<b>18</b>

## GEOGRAPHY FOR TRANSFER – MAJOR #6072

An Associate in Geography for transfer is designed for students planning to complete a bachelor's degree in Geography at a CSU. Geography explores Earth's landscapes and the physical processes shaping them as well as human relationships with the environment. Geographic inquiry bridges the Social and Natural sciences, and is rooted in spatial analysis of phenomena. Within geography there are a number of sub-disciplines, ranging from climatology and geomorphology to the study of human cultures, migrations, economies, and urban environments. Geographers study the interaction of people with the natural environment, as well as the impacts of people and their activities shape, and are in turn shaped, by the natural environment. Cultural Geography focuses on the spatial organization of the societies at scales ranging from the local to the global, utilizing different time scales. Geographic analysis, particularly through the use of Geographic Information Systems (GIS), is used to address a wide range of issues and problems of the modern world. The Associate in Geography is composed of a core set of introductory Geography courses that assist students in developing critical thinking and spatial analysis skills. It also provides students with a solid foundation for pursuing further study in related majors. To earn the Associate in Geography degree for transfer, students must complete (60) required semester units of CSU-transferable coursework, CSU-GE breadth or IGETC requirements and (33) semester units within the major. Students must maintain a minimum 2.0 GPA including grades of C or higher in each course taken to fulfill the major. Students should consult with a counselor when planning to complete the degree for more information on university admissions and transfer requirements.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Define and provide examples of basic geographical concepts in physical and human geography. (For example: plate tectonics, culture hearths and diffusion.)
2. Describe physical processes by which surface features are formed and shaped, (e.g. climate; landforms) and human geography (e.g. religion; population).
3. Explain how geographical factors have shaped historical and current patterns of physical and human geography. (For example, how plate tectonics influences the location and shape of the continents, or how environment and economics have influenced migration and settlement patterns)

REQUIRED CORE COURSES		Units
GEOG 1	Physical Geography .....	4
GEOG 2	Cultural Geography .....	3
GEOG 4A	World Geography .....	3
GEOG 4B	World Geography .....	3

LIST A: Select Two Courses		Units
ANTHRO 2	Cultural Anthropology .....	3
GEOG 8	Physical Geography: Weather and Climate .....	4
GEOG 10	Introduction to GIS .....	3
GEOG 20	Geography of California .....	3
Total		19-20

## GEOLOGY FOR TRANSFER - MAJOR #6070

Geology is a useful major for students with a variety of interests and career goals in the earth sciences including geology, hydrogeology, astrogeology, paleontology, mineralogy, engineering geology, geophysics, geochemistry, petroleum geology, oceanography and environmental science. The Associate in Science in Geology for Transfer program is designed for students who plan to complete a bachelor's degree in a similar major a CSU campus. To earn the Associate in Science in Geology for Transfer program, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 27 units within the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Students must have a minimum grade point average of 2.0. Students must earn a C or better in all courses required for the major.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. Identify distinguishing characteristics, properties, and origin of common rocks and minerals.
2. Explain the processes of plate tectonic theory and identify associated geologic features and events.
3. Determine the age relationships of rocks and fossils using various dating techniques.

CORE COURSES		Units
CHEM 1A	General Chemistry .....	5
CHEM 1B	General Chemistry and Qualitative Analysis .....	5
GEOL 1	Physical Geology .....	4
GEOL 2	Historical Geology .....	3
GEOL 2L	Historical Geology Lab .....	1
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4

#### *Notes:*

*Additional recommended courses (not part of degree)*  
*Physics 4A and Physics 4B (8 units) or (see requirements of 4 year institution)*  
*Physics 2A and Physics 2B (8 units)*  
*Biology 3 (4 units)*  
*Geology 3 (1-2 units)*  
*Geology 11 (1-2 units)*

## GLOBAL STUDIES

### GLOBAL STUDIES FOR TRANSFER – MAJOR #7740

The Associate in Arts in Global Studies for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus, to include Global Studies, Global Politics, International Relations, International Studies and Comparative Government. This degree will acquaint students with the interdisciplinary field of global studies and introduce students to various global issues with a focus on the analysis of causes and solutions. To earn the Associate in Arts in Global Studies for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

1. Explain the various meanings of globalization and identify regional differences.
2. Explain recurring and emerging global issues from a historical and interdisciplinary perspective.
3. Critically evaluate the effectiveness of national, regional and international efforts to solve problems associated with global issues.

REQUIRED CORE	Units
GLST 1 Introduction to Global Studies.....	3
GLST 2 Global Issues .....	3

List A: Select five courses from at least four of the following areas.

Area 1: Culture and Society	Units
ANTHRO 2 Cultural Anthropology.....	3
HIST 23 World History II, since 1500.....	3

Area 2: Geography	Units
GEOG 1 Physical Geography .....	4
GEOG 2 Cultural Geography .....	3
GEOG 4A World Geography, <i>and</i> GEOG 4B World Geography.....	6

Area 3: Economics	Units
ECON 40/40H Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics.....	3
ECON 50/50H Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics.....	3

Area 4: Politics	Units
POLSCI 5 Comparative Government.....	3
POLSCI 24 International Relations.....	3

Area 5: Humanities	Units
ENGL 44A World Literature to the Renaissance .....	3
ENGL 44B World Literature since the Renaissance.....	3
FRENCH 3 Intermediate French, <i>or</i> SPAN 3 Intermediate Spanish .....	5
Total	21-24

### HISTORY FOR TRANSFER – MAJOR #7380

History is our changing perspective on the past. Historians attempt not only to understand the causes and significance of human actions in the past but also to interpret those past actions to others, through teaching, publications, lectures, exhibits, documentaries, and conversations. Knowledge of history provides insight into human nature, enhances our understanding of the present, and guides choices for the future. The Associate in Arts in History for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the Associate in Arts in History for Transfer degree, students must complete 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 units within the major, with a minimum GPA of 2.0. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

1. Analyze and evaluate the validity and significance of historical information from multiple primary and secondary sources.
2. Demonstrate a familiarity with the main figures, events and concepts in the histories of multiple societies.
3. Assess the relative significance of several factors (e.g. race, class, gender, technological change) in shaping the history of multiple societies.

REQUIRED UNITED STATES HISTORY COURSES	Units
HIST 11 History of the United States to 1877.....	3
HIST 12 History of the United States since 1877.....	3

LIST A - Select one of the following:	Units
HIST 1 Western Civilization to 1648 .....	3
HIST 20 World History I, to 1600.....	3

LIST B - Select one of the following:	Units
HIST 2 Western Civilization since 1648 .....	3
HIST 23 World History II, since 1500.....	3

LIST C - Select one of the following:	Units
HIST 17 History of the Muslim World to 1405 .....	3
HIST 20 World History I, to 1600 .....	3
HIST/WSTS 22 History of American Women .....	3
HIST 23 World History II, since 1500 .....	3
HIST 29 History of Mexico, Colonial to Contemporary Period .....	3
HIST/AFRAM 34 History of the American Civil Rights Movement .....	3

*History 20 or 23 may be used for list C only if not used in lists A or B.*

LIST D - Select one from the following:	Units
HIST 3 History of Ancient Rome .....	3
HIST 15 History of the British Isles .....	3
HIST 18 History of Ancient Greece .....	3
HIST 21 United States Civil War .....	3
HIST 25 History of Religion in the United States .....	3
HIST 30 California History .....	3
Total	18

## HUMAN SERVICES

### SOCIAL WORK AND HUMAN SERVICES FOR TRANSFER – MAJOR #7635

An Associate in Arts in Social Work and Human Services for Transfer degree, is designed for students who plan to complete a Bachelor's degree in a similar major at a CSU campus. The degree will acquaint students with the fundamentals of the human services system and the profession of Social Work, including introduction to the theories, principles, and values on which human services are offered and social work is practiced in the United States. To earn the Associate of Arts in Social Work/Human Services for Transfer, students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades of "C" or higher in each course taken to fulfill the major. Local graduation requirements are not necessary to complete the transfer degree. Students should consult with a knowledgeable academic counselor for more information on transfer requirements and university admission.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

1. Demonstrate a fundamental working knowledge of the social services system and social work as a profession.
2. Be prepared for entry level employment in a social services setting.
3. Apply the multiple perspectives of a broad liberal arts foundation to understanding and responding to human needs and social problems.

REQUIRED CORE COURSES	Units
BIOL 20 Human Anatomy, <i>or</i>	
BIOL 22 Human Physiology, <i>or</i>	
BIOL 21A Human Anatomy & Physiology I, <i>and</i>	
BIOL 21B Human Anatomy & Physiology II .....	4-9
ECON 40/40H Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics, <i>or</i>	
ECON 50/50H Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics .....	3
HS 19A Work Experience (Cooperative), Occupational .....	3
HS 20 Introduction to Social Welfare .....	3
MATH 11 Elementary Statistics, <i>or</i>	
MATH 42 Statistics for the Behavioral Sciences .....	4
PSY 2/2H General Psychology, <i>or</i> Honors General Psychology .....	3
SOC 1A/AH Introduction to Sociology, <i>or</i> Honors Introduction to Sociology .....	3
LIST A - Select two (2) courses:	Units
ANTHRO 2/2H Cultural Anthropology, <i>or</i> Honors Cultural Anthropology .....	3
CHDEV 30 Child, Family and Community .....	3
CHDEV/PSY 38 Lifespan Development .....	3
CHDEV/PSY 39 Child Growth and Development .....	3
CRIM 1 Introduction to Criminology .....	3
ENGL 3/3H Critical Reading & Writing, <i>or</i> Honors Critical Reading & Writing .....	3
PSY 16 Abnormal Psychology .....	3
SOC 1B Critical Thinking about Social Problems .....	3
SOC 2 American Minority Groups .....	3
Total	29-34

## JOURNALISM FOR TRANSFER

### – MAJOR #5355

The Associate in Arts in Journalism for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the Associate in Arts in Journalism for Transfer degree, students must complete 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

## ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Demonstrate an understanding of journalistic responsibility.
2. Describe how the major mass media operate and analyze its impact on American society and its diverse communities.
3. Demonstrate the uses of photography, graphics and multimedia tools in media productions.
4. Report, write and edit news stories for multimedia and meet journalistic deadlines.

## CORE COURSES (3 courses or 9 units):

	Units
JOURN 1 Introduction to Mass Communication .....	3
JOURN 3 Newswriting .....	3
JOURN 11A Beginning Media Writing Practicum, <i>or</i>	
JOURN 4 Writing for the College Newspaper.....	3

## LIST A - Select 3 units or 1 course from the following:

	Units
JOURN 11B Intermediate Media Writing Practicum .....	3
JOURN 11C Advanced Media Writing Practicum .....	3
JOURN 11D Editorial Leadership .....	3
JOURN 13 Advanced Reporting and Writing .....	3
JOURN 14 Multimedia Reporting.....	3

## LIST B - Select 6-7 units or 2 courses from the following:...

	Units
COMM 1 Introduction to Public Speaking .....	3
COMM 25 Argumentation.....	3
ENGL 3/3H Critical Reading & Writing, <i>or</i>	
Honors Critical Reading & Writing.....	3

ECON 40/40H Introduction to Microeconomics, <i>or</i>	
Honors Introduction to Microeconomics, <i>or</i>	
ECON 50/50H Introduction to Macroeconomics, <i>or</i>	
Honors Introduction to Macroeconomics.....	3

JOURN 16 Race, Gender and the Media.....	3
MATH/PSY 42 Statistics for the Behavioral Sciences, <i>or</i> .....	4
MATH 11 Elementary Statistics, <i>or</i>	
DS 23 Business Statistics.....	3
PHIL 6 Introduction to Logic.....	3
POLSCI 2/2H American Government, <i>or</i>	
Honors American Government.....	3
Total	18-19

*Note: Students should avoid accumulating additional journalism units as they complete their AA-T degree (which requires 60 units). Additional units will create graduation problems at the upper division. Many programs require 80 units outside of journalism for the degree and each CSU may require up to 28 upper division units in the major.*

## KINESIOLOGY FOR TRANSFER

– MAJOR #4555

An Associate in Arts in Kinesiology for Transfer is designed for students who plan to complete a bachelor's degree in Kinesiology at a CSU or UC campus. An Associate in Arts in Kinesiology prepares students to pursue studies in fields such as kinesiology/physical education credential programs, exercise science, athletic training/sports medicine, and sports administration. To earn the Associate in Arts in Kinesiology for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 22-23 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

## ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Recognize and evaluate the importance of a healthy and physically active lifestyle.
2. Identify the major systems of the human body as they relate to movement and activity by explaining and applying the principles of anatomy and physiology.

## REQUIRED CORE COURSES: 15 units

BIOL 20	Human Anatomy, <i>and</i>	
BIOL 22	Human Physiology, <i>or</i>	
BIOL 21A	Human Anatomy & Physiology I, <i>and</i>	
BIOL 21B	Human Anatomy & Physiology II .....	9
HLTH 2	First Aid and Safety .....	3
PE 62	Introduction to Kinesiology .....	3

## REQUIRED CORE COURSES: 3 units

Select a minimum of 3 different courses from the following for a total of 3 or more units.

	Units
PE 3 Archery .....	1
PE 4 Badminton .....	1
PE 5 Basketball .....	1
PE 7 Golf .....	1
PE 12 Swimming .....	1
PE 13 Tennis .....	1
PE 14 Volleyball.....	1
PE 15A Weight Training (Women) .....	1
PE 15B Weight Training (Men) .....	1
PE 15C Weight Training (Coed).....	1
PE 17 Hatha Yoga .....	1

ELECTIVES: 3 units

Select a minimum of 1 course from the following for a total of 3 or more units.

	Units
CHEM 1A      General Chemistry.....	5
DS 23        Business Statistics .....	3
MATH 11     Elementary Statistics .....	4
PHYS 2A     General Physics 1 .....	4
Total	21-23

**LAW, PUBLIC POLICY, AND SOCIETY FOR TRANSFER – MAJOR #8770**

The coursework required to earn an Associate in Arts in Law, Public Policy, and Society for Transfer has been identified as good preparation for law school upon completion of a bachelor's degree. This interdisciplinary area of emphasis emphasizes the development of communication skills, introduces students to the legal field, and prepares students for further study in a variety of majors. Students who opt to pursue this course of study are encouraged to engage in further exploration of one or more specific majors as they select electives for degree completion. To earn the Associate in Arts in Law, Public Policy and Society for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

**ASSOCIATE IN ARTS DEGREE**

*Student Learning Outcomes:*

1. Demonstrate independent and critical thinking regarding important topics in law.
2. Demonstrate independent and critical thinking regarding important topics in law.

REQUIRED COURSES	Units
AMST 11      Law and Democracy.....	3
BA 18        Business and the Legal Environment.....	4
COMM 4      Persuasion, <i>or</i>	
ENGL 3/3H    Critical Reading & Writing, <i>or</i>	
Honors Critical Reading & Writing, <i>or</i>	
PHIL 2/2H    Critical Reasoning and Analytic Writing, <i>or</i>	
Honors Critical Reasoning and Analytic	
Writing.....	3
COMM 25     Argumentation.....	3
CRIM 6        Concepts of Criminal Law .....	3
ENGL 1A/1AH    Reading and Composition, <i>or</i>	
Honors Reading and Composition .....	4

MATH 11/11H	Elementary Statistics, <i>or</i>	
	Honors Elementary Statistics, <i>or</i>	
MATH 42	Statistics for the Behavioral Sciences, <i>or</i>	
DS 23	Business Statistics .....	3-4
HIST 11	History of the United States to 1877, <i>or</i>	
HIST 12/12H	History of the United States since 1877, <i>or</i>	
	Honors History of the United States since	
	1877 .....	3
PHIL 1C	Ethics .....	3
POLSCI 2/2H	American Government, <i>or</i>	
	Honors American Government.....	3
	Total	32-33

**MATHEMATICS FOR TRANSFER**

**- FORMERLY MATHEMATICS – MAJOR #6250**

The Associate in Science in Mathematics for Transfer is designed to prepare students for further study in mathematics or in the sciences at the university level. It is also intend to provide students with a solid mathematics background in preparation for graduate level study or research in most majors. The Associate in Science in Mathematics for Transfer is specifically designed for students who plan to complete a bachelor's degree in mathematics at a CSU campus. To earn the Associate in Science in Mathematics for Transfer, students must complete 60 required semester units of CSU-transferable coursework, CSU-GE Breath or IGETC requirements and 20-21 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. The local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admissions and transfer requirements.

**ASSOCIATE IN SCIENCE DEGREE**

*Student Learning Outcomes:*

1. Students will solve application problems in the natural sciences, management sciences, and social sciences using sound mathematical principles.
2. Students will demonstrate algebraic proficiency when using the concepts taught in each course to solve multi-step problems.
3. Students will use limits, derivatives, and integrals to solve problems such as probability density functions.

REQUIRED CORE COURSES	Units
MATH 5A      Mathematical Analysis I .....	5
MATH 5B      Mathematical Analysis II .....	4
MATH 6        Mathematical Analysis III .....	4

GROUP A: Select a minimum of seven units from Groups A or B with at least three units from Group A. Units

MATH 7	Introduction to Differential Equations .....	4
MATH 17	Differential Equations and Linear Algebra.....	5
MATH 26	Elementary Linear Algebra.....	3

GROUP B: Select a minimum of four units from Group B if less than seven units in Group A were selected. Units

CSCI 40	Programming Concepts & Methodology I.....	4
MATH 11/11H	Elementary Statistics, <i>or</i> Honors Elementary Statistics, <i>or</i>	
MATH 42	Statistics for the Behavioral Sciences.....	4
PHYS 4A	Physics for Scientists and Engineers.....	4
	Total	20-22

MUS 42C	Intermediate/Advanced Strings (String Orchestra) .....	1
MUS 42D	Intermediate/Advanced Percussion (Percussion Ensemble) .....	1

For the Large Ensemble requirement, all music majors select four units from the following: Units

MUS 30	College Choir.....	1
MUS 34	Fresno Chorale.....	1
MUS 40	Concert Band .....	1
MUS 41	Jazz Ensemble.....	1
MUS 46	Symphony Orchestra.....	1
MUS 60	Symphonic Choir .....	1
MUS 68	Symphonic Band.....	1
MUS 72	Jazz Composer's Orchestra.....	2
MUS 76	College Philharmonic Orchestra.....	1
	Total	22

### MUSIC FOR TRANSFER – MAJOR #5805

The Associate in Arts in Music for Transfer degree is intended for students who plan to complete a Bachelor's degree in music studies at a CSU campus. Students completing the transfer degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts this degree will be required to complete no more than 60 units after transferring to earn a bachelor's degree. The Associate in Arts in Music for Transfer degree may not be the best option for students intending to transfer to a particular CSU campus or a university that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

1. Audiate, analyze, read, and write music.
2. Perform music of at least three different time periods.
3. Perform in solo and ensemble settings.

REQUIRED CORE COURSES	Units	
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 1B	Music Theory II .....	3
MUS 2A	Music Theory III .....	3
MUS 2B	Music Theory IV.....	3
MUS 7A	Ear Training I.....	1
MUS 7B	Ear Training: Level II.....	1
MUS 7C	Ear Training: Level III.....	1
MUS 7D	Ear Training: Level IV .....	1

Two Units of Intermediate/Advanced class requirement to be selected from the following: Units

MUS 22	Intermediate/Advanced Piano.....	1
MUS 26	Intermediate/Advanced Voice .....	1
MUS 29	Intermediate/Advanced Guitar .....	1
MUS 42A	Intermediate/Advanced Brass (Brass Choir).....	1
MUS 42B	Intermediate/Advanced Woodwinds (Woodwind Choir).....	1

### NUTRITION AND DIETETICS FOR TRANSFER – MAJOR #5683

The Associate in Science in Nutrition and Dietetics for Transfer is designed for students who plan to transfer to a CSU campus to complete a bachelor's degree in nutrition and dietetics. To earn the Associates in Science in Nutrition and Dietetics for Transfer degree, students must complete 60 units that are eligible for transfer to the California State University, including both of the following: the Intersegmental General Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements and a minimum of 18 semester units in a major or an area of emphasis, as determined by the community college district. Obtainment of a minimum grade point average of 2.0. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. For more information on CSU admission and transfer requirements consult with a counselor. Upon completion of the Associate in Science in Nutrition and Dietetics for Transfer the students will be able to demonstrate knowledge of the relationship of nutrients and lifestyle factors and the associated risk of chronic disease. Students will demonstrate knowledge of physiological processes such as digestion, absorption, transport and metabolism of nutrients. Students will recognize and separate scientifically supported information from misinformation. Students will identify ways in which social factors influence food related choices, practices, and beliefs.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Demonstrate knowledge of the relationship of nutrients and lifestyle factors and the associated risk of chronic disease.
2. Demonstrate knowledge of physiological processes such as digestion, absorption, transport and metabolism of nutrients.
3. Recognize and separate scientifically supported information from misinformation.
4. Identify ways in which social factors influence food related choices, practices and beliefs.



REQUIRED CORE COURSES		Units
BIOL 31	Microbiology.....	5
CHEM 1A	General Chemistry, <i>and</i>	
CHEM 1B	General Chemistry and Qualitative Analysis.....	10
FN 40	Nutrition.....	3
PSY 2	General Psychology.....	3
List A: Select at least one course from the list below:		
BIOL 20	Human Anatomy.....	4
BIOL 21A	Human Anatomy & Physiology I, <i>and</i>	
BIOL 21B	Human Anatomy & Physiology II.....	9
BIOL 22	Human Physiology.....	5
CHEM 28A	Organic Chemistry I, <i>and</i>	
CHEM 29A	Organic Chemistry Laboratory I.....	5
MATH 11	Elementary Statistics, <i>or</i>	
MATH/PSY 42	Statistics for the Behavioral Sciences, <i>or</i>	
DS 23	Business Statistics.....	3-4
List B: Select one course:		
FN 1	Principles of Food Preparation.....	3
Total		27-33

REQUIRED CORE COURSES		Units
PHIL 1A/1AH	Theories of Knowledge and Reality, <i>or</i> Honors Theories of Knowledge and Reality.....	3
PHIL 1C/1CH	Ethics, <i>or</i> Honors Ethics.....	3
PHIL 6	Introduction to Logic.....	3
Select three of the following courses (min. two PHIL):		Units
HIST 1	Western Civilization to 1648.....	3
HIST 2	Western Civilization since 1648.....	3
HUMAN 10	Classical Humanities.....	3
HUMAN 11	Modern Humanities.....	3
PHIL 1B	Social and Political Philosophy.....	3
PHIL 1D	World Religions.....	3
PHIL 2/2H	Critical Reasoning and Analytic Writing, <i>or</i> Honors Critical Reasoning and Analytic Writing.....	3
PHIL 3A	Ancient Philosophy.....	3
PHIL 3B	Modern Philosophy.....	3
PHIL 5	Philosophy of Religion.....	3
Total		18

## PHILOSOPHY FOR TRANSFER

– MAJOR #5341

An Associate in Arts in Philosophy for Transfer is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. An Associate in Arts in Philosophy for Transfer is a great way to develop critical and creative reasoning skills, enhance an ability to read complex materials with comprehension, and improve communication skills. These assets will be valuable as a transfer student to a four-year institution, whether you major in philosophy or some other field, and will enhance your preparation for a wide range of career opportunities. To earn the Associate in Arts in Philosophy for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate independent and critical thinking regarding important topics in philosophy.
2. Analyze and evaluate arguments, both philosophical and non-philosophical, in accordance with the standards taught in our philosophy courses.

## PHYSICS FOR TRANSFER – MAJOR #6335

An Associate in Science in Physics for Transfer is designed for students who plan to complete a bachelor's degree in Physics at a CSU or UC campus. An Associate in Science in Physics for Transfer is comprised of the core set of introductory Physics and Mathematics courses that assist a student to develop critical thinking and analytical reasoning skills and establish conceptual frameworks for understanding physical phenomena. To earn the Associate in Science in Physics for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. Given a set of initial conditions, apply problem solving techniques to develop a mathematical model which describes the physical characteristics of a given system. Identify known and unknown quantities, derive appropriate equations, and analyze the results.
2. Given a physical system, identify the core concepts and physical laws that apply. Describe the system in terms of the core concepts and physical laws. Select appropriate conceptual model(s) and justify their application.

3. In the laboratory setting, demonstrate safe laboratory practices.
4. In the laboratory setting, determine the relationship between the physical quantities of a system. Develop mathematical models and use analytical and graphical means to predict the subsequent behavior of the system.

CORE COURSES		Units
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4

## POLITICAL SCIENCE FOR TRANSFER

– MAJOR #7450

The Associate in Arts in Political Science for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the associate in arts transfer degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Students are required to complete: A.) 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. B.) 60 semester CSU transferable units using the CSU-General Education Breadth pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. C.) No more than 60 semester units are required.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Explain the method of inquiry used by political science.
2. Evaluate the success of political systems in building community, fostering economic growth and attaining the goals of liberty, security, and equality.
3. Identify and explain the causes and consequences of increasing global interdependence.

REQUIRED CORE Courses: Select one of the following:		Units
POLSCI 2/2H	American Government, <i>or</i> Honors American Government .....	3

LIST A: Select three of the following:		Units
MATH/PSY 42	Statistics for the Behavioral Sciences, <i>or</i> MATH 11 Elementary Statistics.....	4
POLSCI 1	Modern Politics.....	3
POLSCI 3	Introduction to Political Theory and Thought .....	3
POLSCI 5	Comparative Government.....	3
POLSCI 24	International Relations.....	3

LIST B: Select two of the following:		Units
BA 20	Law and the Legal System.....	3
ECON 40	Introduction to Microeconomics, <i>or</i> ECON 50 Introduction to Macroeconomics .....	3
POLSCI 13	Legal and Judicial Reasoning.....	3
SOC 1B	Critical Thinking about Social Problems .....	3

## PSYCHOLOGY FOR TRANSFER

– MAJOR #7550

Psychology is a useful major for students with a variety of interests and career goals due to its emphasis on critical thinking, the scientific method of inquiry, and the interactive role that biological, psychological, developmental, and sociocultural factors play in affecting human behavior and mental processes. The associate in arts in Psychology for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the associate in arts in Psychology for Transfer degree, students must complete a minimum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 19-20 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Apply their knowledge of psychology's major theoretical perspectives (psychodynamic, behavioral, biological, humanistic, cognitive, evolutionary, and sociocultural) and its scientific research process when studying topics of interest, including methodologies and ethical concerns within the field's subdisciplines.
2. Recognize and analyze the application of psychological concepts and theories to human experiences across the lifespan and within the context of various social and cultural constructs.
3. When presented with information and claims about human behavior and mental processes, critically evaluate them within a framework that views humans as continually developing physiological, social, and psychological organisms.

REQUIRED CORE COURSE		Units
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
PSY 36	Biological Psychology.....	3
PSY/MATH 42	Statistics for the Behavioral Sciences, <i>or</i> MATH 11/11H Elementary Statistics, <i>or</i> Honors Elementary Statistics .....	4
PSY 45	Introduction to Research Methods in Psychology .....	3

Select one of the following courses:		Units
BIOL 5	Human Biology .....	4
PSY 5	Social Psychology.....	3
Choose one of the following courses:		
<i>NOTE: Psychology 5 can be taken in this section only if it was not taken as part of the previous sections</i>		
		Units
PSY 5	Social Psychology.....	3
PSY 16	Abnormal Psychology .....	3
PSY 25	Human Sexuality .....	3
PSY 33	Personal and Social Adjustment.....	3
Total		19-20

## SOCIOLOGY FOR TRANSFER – MAJOR #7600

The associate in arts in Sociology for Transfer degree is designed to acquaint students with tools to understand the functioning of the society in which they live. The degree offers students a broad and multicultural perspective of the world around them and also provides them with a solid foundation for further study in sociology. Sociology can assist in occupations such as teaching, social work, drug and alcohol counseling, police work, probation aides, juvenile hall counseling, medical work, international business, and any other occupation that places you in contact with people of diverse backgrounds. The associate in arts in Sociology for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. To earn the associate in arts in Sociology for Transfer degree, students must complete the following requirements: Completion of 60 semester units that are eligible for transfer to the California State University, including all of the following: Students must earn a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements (CSU-GE). Completion of a minimum of 18 semester units in the associate in arts degree in Sociology for Transfer as identified by the Fresno City College catalog. Students must earn a "C" or better in all of the courses required for this degree.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcome:*

1. Understand the complexity of social life, including an understanding of the social forces that shape institutions in society, sources of societal problems, and remedies to address those problems.

REQUIRED COURSES		Units
PSY 5	Social Psychology.....	3
PSY/MATH 42	Statistics for the Behavioral Sciences, <i>or</i>	
MATH 11	Elementary Statistics.....	4
SOC 1A/1AH	Introduction to Sociology, <i>or</i>	
SOC 1B	Honors Introduction to Sociology .....	3
SOC 1B	Critical Thinking about Social Problems .....	3
SOC 32	Introduction to Marriage and Family .....	3
Choose one of the following 3-unit courses:		Units
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society.....	3
ANTHRO 2/2H	Cultural Anthropology, <i>or</i>	
SOC 2	Honors Cultural Anthropology .....	3
HS 20	Introduction to Social Welfare .....	3
SOC 2	American Minority Groups .....	3
SOC/WSTS 5	Sociology of Rape .....	3
SOC/WSTS 7	Domestic Violence: Abuse within the Family .....	3
SOC/HS 10	Introduction to Aging Studies.....	3
SOC/CLS 14	Sociology of the Mexican American Community .....	3
SOC 31	The Child in Society: A Social Problems Approach.....	3
WSTS 10	Changing Roles of Women.....	3

## SPANISH FOR TRANSFER – MAJOR #5550

The Associate in Arts in Spanish for Transfer is designed to prepare students for further study in Spanish at the university level. A degree in Spanish is a great way to prepare students for entry into a variety of career options requiring intermediate or better levels of fluency. The Associate in Arts in Spanish major also acquaints students with the cultures of Spanish speaking countries. The Associate in Spanish for Transfer is specifically designed for students who plan to complete a bachelor's degree in Spanish at a CSU campus. To earn the Associate in Spanish for Transfer, students must complete 60 required semester units of CSU-transferable coursework, CSU-GE Breadth or IGETC requirements and 21-24 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. The local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admissions and transfer requirements.

1. Students entering the Spanish program at Spanish 2 or higher are required to complete the specified unit requirements of the degree. Students must consult with the Foreign Language Department Chair for approval of course substitutions.
2. Some of the above courses may have prerequisite. See the catalog or schedule of classes.
3. The Associate Degree requires completion of the major (21-24 units) with a "C" or better in each course plus the completion of the General Education (either CSU-GE Breadth or IGETC) for a total of 60 semester units with a 2.0 or better GPA.
4. Two of the following courses may be challenged according to Foreign Language Department policy: Spanish 1, 2.

**ASSOCIATE IN ARTS DEGREE**

*Student Learning Outcomes:*

1. Engage in conversation using the Spanish in the daily life situation.
2. Read with a certain depth of understanding magazine or newspaper articles, short stories, and literacy excerpts written in Spanish.
3. Write at the advanced level in a variety of modalities including personal and professional letters, short narratives, and descriptive essays.
4. Recognize and understand cultural similarities and differences between U.S. culture and that of the Spanish speaking world Distinguish simple behavioral patterns that represent these cultures and behave in culturally appropriate ways in specific situations.

REQUIRED CORE COURSES		Units
SPAN 1	Beginning Spanish.....	5
SPAN 2	High-Beginning Spanish.....	5
SPAN 3	Intermediate Spanish, <i>or</i>	
SPAN 3NS	Intermediate Spanish for Spanish Speakers.....	5
SPAN 4	High-Intermediate Spanish, <i>or</i>	
SPAN 4NS	High-Intermediate Spanish for Spanish Speakers.....	5
GROUP A: Select a minimum of four (4) additional units from the following list		
SPAN 5	The Short Story: Mexico, Spain, and the U.S. ....	4
SPAN 6	The Short Story: Latin American.....	4
SPAN 7	Advanced Spanish: Composition and Grammar .....	4
SPAN 8	Advanced Spanish Conversation.....	4
SPAN 9	Spanish Business and Culture .....	4
SPAN 41	Introduction to Poetry in Spanish.....	4
SPAN 42	Hispanic American Culture.....	4
	Total	24

**THEATRE ARTS FOR TRANSFER**

– MAJOR # 5445

The associate in arts in Theatre Arts for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the associate in arts transfer degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Students are required to complete: A) 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. B) 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. C) No more than 60 semester units are required.

**ASSOCIATE IN ARTS DEGREE**

*Student Learning Outcomes:*

1. Identify the literature and styles of theatre.
2. Demonstrate the acting process.
3. Demonstrate the production process.

CORE COURSES		Units
TA 30	Theatre Appreciation, <i>or</i>	
TA 31	Theatre History and Dramatic Literature.....	3
TA 40	Performance Practicum, <i>or</i>	
TA 23	Technical Theatre Practicum .....	3
TA 41	Beginning Acting, <i>or</i>	
TA 42	Beginning Acting for Theatre Majors.....	3
Elective Courses: Select 9 Units from the following Courses:		
		Units
TA 25	Stagecraft .....	3
TA 27B	Introduction to Lighting Design.....	3
TA 28	Introduction to Stage Makeup .....	3
TA 36	Costume Design.....	3
TA 38	Script Analysis .....	3
TA 40	Performance Practicum .....	3
TA 43	Intermediate Acting .....	3

*Note: TA 40 can be taken in this section only if they were not taken as part of the core.*

# ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

## ACCOUNTING

### ACCOUNTING – MAJOR #2010

The AS Degree in Accounting qualifies the student for entry-level accounting positions in business, government, industry, and financial institutions. Students interested in pursuing a BS Degree in Accounting should consult the catalog of the institution to which they wish to transfer for the specific requirements of that program.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Operate and maintain an integrated accounting system in both a manual and a computerized environment.
2. Develop and analyze accounting information to meet the needs of both external and internal users.
3. Demonstrate proficiency in accounting theory, functions, and skills.

REQUIRED COURSES	Units
*ACCTG 4A Financial Accounting.....	4
*ACCTG 4B Managerial Accounting .....	4
ACCTG 19 Work Experience (Cooperative), Occupational.....	1
*ACCTG 51 Intermediate Accounting.....	3
*ACCTG 52 Cost Accounting .....	3
ACCTG 70 QuickBooks Fundamentals, <i>or</i>	
ACCTG 73 Sage 100 Fundamentals.....	3
BA 10 Introduction to Business .....	3
CIT 15 Computer Concepts .....	3
CIT 23 Spreadsheet Fundamentals, <i>or</i>	
BT 24 Beginning Excel .....	1-2

Select 3 of the following courses: (ACCTG 70 and ACCTG 73 can only be used if not taken above)

	Units
*ACCTG 53 Tax Accounting.....	3
*ACCTG 54A Principles of Auditing.....	3
*ACCTG 56 Payroll Accounting .....	3

*ACCTG 57	Governmental Accounting .....	3
*ACCTG 61	Forensics Accounting.....	3
ACCTG 70	QuickBooks Fundamentals .....	3
ACCTG 73	Sage 100 Fundamentals .....	3
	Total	34-35

*\*The advanced accounting courses noted above may also be used to satisfy the unit eligibility requirement that must be met before a person can take the CPA Exam. Many students take these courses to satisfy that CPA exam requirement as well as to satisfy the AS degree requirements.*

*Note: Associate degree requirements are listed on page 37.*

### ACCOUNTING – MAJOR #2010

The Accounting Certificate of Achievement qualifies the student for entry-level accounting positions in business, government, industry, and financial institutions.

#### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

1. Operate and maintain an integrated accounting system in both a manual and a computerized environment.
2. Develop and analyze accounting information to meet the needs of both external and internal users.
3. Demonstrate proficiency in accounting theory, functions, and skills.

REQUIRED COURSES	Units
*ACCTG 4A Financial Accounting.....	4
*ACCTG 4B Managerial Accounting .....	4
ACCTG 19 Work Experience (Cooperative), Occupational.....	1
*ACCTG 51 Intermediate Accounting.....	3
*ACCTG 52 Cost Accounting .....	3
ACCTG 70 QuickBooks Fundamentals, <i>or</i>	
ACCTG 73 Sage 100 Fundamentals.....	3
BA 10 Introduction to Business .....	3
CIT 15 Computer Concepts .....	3
CIT 23 Spreadsheet Fundamentals, <i>or</i>	
BT 24 Beginning Excel .....	1-2

Select 3 of the following courses: (ACCTG 70 and ACCTG 73 can only be used if not taken above)

	Units
*ACCTG 53 Tax Accounting.....	3
*ACCTG 54A Principles of Auditing.....	3
*ACCTG 56 Payroll Accounting.....	3
*ACCTG 57 Governmental Accounting.....	3
*ACCTG 61 Forensics Accounting.....	3
ACCTG 70 QuickBooks Fundamentals.....	3
ACCTG 73 Sage 100 Fundamentals.....	3
Total	34-35

\*The advanced accounting courses noted above may also be used to satisfy the unit eligibility requirement that must be met before a person can take the CPA Exam. Many students take these courses to satisfy that CPA exam requirement as well as to satisfy the Certificate of Achievement requirements.

## COMPUTERIZED ACCOUNTING FOR THE WORKPLACE - FORMERLY COMPUTERIZED ACCOUNTING - MAJOR #2056

The Computerized Accounting for the Workplace Certificate of Achievement is designed for entry-level employment as an account clerk using various software packages and the latest in business technology to perform various accounting functions.

### CERTIFICATE OF ACHIEVEMENT

#### Student Learning Outcomes:

1. Develop accounting information to meet the needs of both external and internal users.
2. Record and enter transactions into an accounting system in both a manual and a computerized environment.
3. Demonstrate an understanding of accounting functions and skills required in the workplace.

REQUIRED COURSES	Units
ACCTG 4A Financial Accounting.....	4
ACCTG 19 Work Experience (Cooperative), Occupational.....	3
ACCTG 56 Payroll Accounting.....	3
ACCTG 70 QuickBooks Fundamentals.....	3
ACCTG 73 Sage 100 Fundamentals.....	3
CIT 23 Spreadsheet Fundamentals, or	
BT 24 Beginning Excel.....	1-2
Total	17-18

## ADMINISTRATION OF JUSTICE

### BASIC POLICE ACADEMY – MAJOR #8921

The Basic Police Academy Certificate of Achievement program offers curriculum to prepare students with the knowledge and skills necessary to complete a law enforcement field training program certified by the California Commission on Peace Officer Standards and Training (POST). Employment opportunities are found in both government and private enterprise where law enforcement principles are applied.

The basic academy is offered in three different formats; the intensive 40 hour per week format, the 24 hour per week night academy extended format, and the modular format. Hours per week may vary slightly according to schedule.

#### PROGRAM REQUIREMENTS

To qualify for the program, applicants must:

1. Be 18 years of age and have a high school diploma or G.E.D.
2. Complete and submit the Fresno City College and Police Academy applications.
3. Pass the POST written examination and physical agility test.
4. Applicants must attend an interview and orientation, and will be notified regarding their acceptance.

#### Accepted applicants must:

1. Possess a valid California Driver's License and provide a DMV printout of their driving record.
2. Provide a Department of Justice clearance for firearms possession.
3. Provide proof of a physical examination including an Electrocardiogram with a physician's approval for applicant to participate in all aspects of academy training.

### CERTIFICATE OF ACHIEVEMENT

#### Student Learning Outcomes:

1. Demonstrate knowledge of California laws pertaining to arrest authority of a peace officer and a citizen covered under Penal Code sections 836 and 837.
2. Compare and contrast the constitutional issues involved in detentions, arrest and interrogations.
3. Demonstrate physical competency in psychomotor skills in handling police weaponry in a safe manner.
4. Demonstrate the ability to communicate effectively and professionally through written, oral and electronic media.
5. Identify the California laws that pertain to the enforcement and procedural aspects of law enforcement, recognizing the violations an officer is likely to encounter and describe the legal obligations in enforcing those laws.
6. Identify the process to confine and care for adult or juvenile prisoners in such a manner as to provide the necessary confinement and to protect the prisoner's rights and welfare.

REQUIRED COURSES		Units
AJ 270A	Basic Police Academy – Part 1.....	17.5
AJ 270B	Basic Police Academy – Part 2.....	20.5
	Total	38
OR		
AJ 272	Regular Basic Course Module III.....	10
AJ 273	Regular Basic Course Module II.....	13
AJ 274	Regular Basic Course Module I.....	25.5
	Total	48.5

## JUVENILE CORRECTIONAL OFFICER CORE

– MAJOR #8943

Designed for the student needing to complete the Standards and Training for Corrections (STC) Juvenile Corrections Officer Core Course to become a Juvenile Corrections Officer in the State of California.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Identify the responsibilities of a Juvenile Corrections Officer in the State of California.
2. Identify the characteristics of the profession of the Juvenile Correctional Officer.
3. Describe the procedures a Juvenile Correctional Officer must perform from arrest to disposition of a juvenile offender.

REQUIRED COURSE	Units
AJ 286	Juvenile Correctional Officer Core.....
	7

## POST BASIC SUPERVISOR

– FORMERLY BASIC SUPERVISOR - MAJOR #8927

Designed for the student needing to complete the California Commission on Peace Officer Standards and Training (POST) required 80-hour course to become a supervisor for a California public safety agency.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Satisfies all the required mandated training for California Peace Officers Standards and Training (POST) to become a supervisor.
2. Identify methodologies of supervision related to the law enforcement profession.

REQUIRED COURSE	Units
AJ 276	POST Basic Supervisor Course.....
	4.5

## PROBATION CORE COURSE – MAJOR #8942

Designed for the student needing to complete the Standards and Training for Corrections (STC) Probation Officer Core Course to become a County Probation Officer in the State of California.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Identify the responsibilities of a County Probation Officer for the State of California.
2. Distinguish the responsibilities of the probation officer when a minor is taken into custody using the Welfare and Institutions Codes 625, 627, and 627.5.

REQUIRED COURSE	Units
AJ 285	Probation Core Course.....
	10

## PUBLIC SAFETY DISPATCHER – MAJOR #8970

Designed for the student needing to complete the Peace Officer Standards and Training (POST) Public Safety Dispatcher 120-hour course required under POST Regulation 1018(d)(1).

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Identify basic functions of Public Safety Dispatcher.
2. Recognize the required state and federal reporting laws as they pertain to a Public Safety Dispatcher.

REQUIRED COURSE	Units
AJ 278	Public Safety Dispatcher .....
	7

## REQUALIFICATION - BASIC COURSE

– MAJOR #8925

Designed for eligible students under California Commission on Peace Officer Standards and Training (POST) PAM Regulation 1008(b) or Procedure D-11-6(d), needing to complete the POST Requalification Course necessary to maintain their Basic POST Certificate.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Satisfies all the POST required retraining to become a sworn peace officer in the State of California.
2. Qualified to enter a California Peace Officer's Field Training Program.

REQUIRED COURSE	Units
AJ 219	Requalification - Basic Course.....
	6

**STC BASIC SUPERVISOR – MAJOR # 8926**

Designed for the student needing to complete the California Standards and Training for Corrections (STC) required 80-hour course to become a supervisor for a California public safety agency.

**CERTIFICATE***Student Learning Outcomes:*

1. Satisfies the 80-hour requirement of Minimum Jail Standards Title 15, Section 181 to become a probation or corrections supervisor.
2. Identify methodologies of supervision related to the probation and corrections professions.

REQUIRED COURSE	Units
AJ 276A	STC Basic Supervisor Course ..... 4.5

**AFRICAN-AMERICAN STUDIES**

– MAJOR #7640

The African-American Studies degree is a social science based program designed to focus on the history, heritage, and social culture of African-Americans and African people of the diaspora. African-American Studies provides the knowledge and skills, and interdisciplinary critical analysis necessary to help students understand, communicate, and appreciate the rich cultural diversity of American society through the study of the African-American community.

**ASSOCIATE IN ARTS DEGREE***Student Learning Outcomes:*

1. Evaluate and analyze the historical and cultural contributions made by African-Americans to the economic, social and political systems of the United States.
2. Evaluate and assess the historic roles of Africa and African people throughout the world.
3. Analyze and evaluate contemporary social, political, and economic issues of the African-American community.
4. Demonstrate academic success and positive community involvement.

*Total Units Required*..... 18

REQUIRED CORE COURSES: Select 12 units	Units
AFRAM 1	Introduction to African American Studies ..... 3
AFRAM 2	African American Cultural Adaptation ..... 3
AFRAM 3	African-American Art ..... 3
AFRAM 15	African American Music ..... 3

COURSE OPTIONS: Select at least 6 units	Units
AFRAM 4	Classical and Pre Colonial Africa ..... 3
AFRAM 5	The African Diaspora of the Americas ..... 3
AFRAM 6	African Cultures and Languages ..... 3
AFRAM 8	African-American Creative Workshop ..... 3
AFRAM/HIST 34	History of the American Civil Rights Movement ..... 3
AFRAM/WSTS 41	The African-American Women's Studies ..... 3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society ..... 3

*Notes: An associate in arts degree will be awarded to any candidate who successfully completes 60 units. The 60 units must include associate degree requirements and at least 18 units of course work as listed above.*

**ALLIED HEALTH****PRE-ALLIED HEALTH - FORMERLY PRE-ALLIED HEALTH****REGISTERED NURSING OPTION – MAJOR #4526**

The Pre-Allied Health degree offers an interdisciplinary approach of study for students seeking to enter the profession of health care in a variety of ways. The degree will allow students to pursue a rigorous course of study before selecting an area of concentration to match their career and study interests. With emphasis on basic science, cultural competency in health care, the degree offered will prepare students to excel in a wide range of health care fields. Students completing the degree will be prepared to enter programs for careers in Dental Hygiene, Health Information Technology, Medical Assisting, Radiologic Technology, Registered Nursing or Respiratory Care.

**ASSOCIATE IN SCIENCE DEGREE***Student Learning Outcomes:*

1. Articulate career options and the necessary educational pathway for health professions.
2. Express knowledge of current scientific and social issues affecting health care systems.
3. Prepared to enter programs for careers in Dental Hygiene, Health Information Technology, Medical Assisting, Radiologic Technology, Registered Nursing or Respiratory Care.

REQUIRED COURSES	Units
AHLTH 100	Introduction to Health Careers ..... 2
BIOL 20	Human Anatomy, <i>and</i>
BIOL 22	Human Physiology, <i>or</i>
BIOL 21A	Human Anatomy & Physiology I, <i>and</i>
BIOL 21B	Human Anatomy & Physiology II ..... 9
CHEM 3A	Introduction to General Chemistry ..... 4
HIT 10	Medical Terminology ..... 3



Select two courses from the following:		Units
ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology .....	3
BIOL 31	Microbiology.....	5
CHEM 3B	Introductory Organic & Biological Chemistry.....	4
FN 35	Nutrition and Health .....	3
FN 40	Nutrition .....	3
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology .....	3
Total		24-27

## PUBLIC HEALTH SCIENCE FOR TRANSFER – MAJOR #8400

The Associate in Science in Public Health Science for Transfer is designed for students who plan to complete a bachelor's degree in Health Science at a CSU or UC campus. An Associate in Science in Public Health Science focuses on competencies that include knowledge of public health models, health risk assessments, health screenings, health promotion programming, surveillance of disease outbreaks and injury prevention strategies for a community. The public health field includes disciplines such as patient health navigator, health education outreach, epidemiology, biostatistics, health services, environmental health, behavioral health, and occupational health. The Public Health Science Associate in Science for Transfer provides preparedness in these job related career paths. To earn the Associate in Science in Public Health Science for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 33 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate the ability to comprehend and apply the multi-dimensional approach of public health sciences.
2. Identify proactive factors for disease prevention and risk factors for disease and disability.
3. Demonstrate and apply behavior-changing techniques to maximize health and wellness.
4. Demonstrate the concepts of research, program planning and evaluation strategies.

REQUIRED COURSES		Units
AHLTH 1	Introduction to Public Health.....	3
BIOL 5	Human Biology .....	4
BIOL 20	Human Anatomy, <i>and</i> BIOL 22 Human Physiology, <i>or</i> BIOL 21A Human Anatomy & Physiology I, <i>and</i> BIOL 21B Human Anatomy & Physiology II .....	9
CHEM 3A	Introduction to General Chemistry.....	4
HLTH 1	Contemporary Health Issues .....	3
MATH 11	Elementary Statistics .....	4
PSY 2	General Psychology .....	3
Select a Minimum of 3 Units from the Following		Units
AHLTH 2	Health and Social Justice .....	3
ECON 40	Introduction to Microeconomics .....	3
ECON 50	Introduction to Macroeconomics.....	3
FN 40	Nutrition .....	3
HLTH 2	First Aid and Safety .....	3
PSY 25	Human Sexuality .....	3
Total		33

## AMERICAN INDIAN STUDIES

### – MAJOR #7680

Fresno City College is located in an area that is rich in the history and contemporary cultures of American Indians. California has the highest American-Indian population in the United States, and has several Indigenous communities in our immediate area. American Indian Studies exists to serve Indian and non-Indian students who will be working in any service field, academic or social institution. The program leading to the associate in arts degree will also provide a foundation in American Indian Studies for students wishing to pursue a higher degree in the subject at a four-year university. In recent years, several graduate programs have begun in American-Indian Studies at universities in California and elsewhere.

Student must complete 12 units of required basic core courses. Select 9 units from the course options listed below for a total of 21 units for an associate in arts degree.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Identify and describe cultural differences and similarities among the American Indian and Alaskan Native societies of North America.
2. Describe and analyze the material, political, spiritual, and environmental contributions made by American Indian societies to the world.
3. Identify the inappropriate uses of racial stereotypes about Indians and analyze how they have been used to advance special interests.
4. Explain historically the effects of colonization and imperialism on American Indian tribes.

- Identify the major issues of the 20th and 21st century for American Indians, with an example on current events.
- Evaluate the arts of diverse peoples through an expanded awareness and appreciation of North American arts.

REQUIRED CORE COURSES		Units
AMIND 31	American Indian Culture.....	3
AMIND 32	American Indian History.....	3
AMIND 34	American Indian Contemporary Society .....	3
AMIND 35	American Indian Art.....	3
COURSE OPTIONS: Select a minimum of 9 units		Units
AFRAM 5	The African Diaspora of the Americas.....	3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society.....	3
ANTHRO/CLS 28	Ancient Mexico .....	3
CLS 11	Introduction to Chicano-Latino Studies.....	3
ENGL 14	Folklore.....	3
GEOG 2	Cultural Geography .....	3
SOC 2	American Minority Groups .....	3
		Total 21

*Notes:*

- An associate in arts degree will be awarded to any candidate who successfully completes a total of 60 units. The 60 units must include associate degree requirements and 21 units in course work as listed above.
- Associate degree requirements are listed on page 37 of this catalog. General Education requirements for transfer certification are on page 36.

## AMERICAN INDIAN STUDIES – MAJOR #7681

Fresno City College is located in an area that is rich in the history and contemporary cultures of American Indians. California has the highest American-Indian population in the United States, and has several Indigenous communities in our immediate area. The Certificate in American Indian Studies exists to serve Indian and non-Indian students who will be working for local tribes communities, tribal organizations, in any service field, academic or social institution servicing American Indians. To earn the certificate the student must complete 12 units of required basic core courses.

### CERTIFICATE

*Student Learning Outcomes:*

- Identify and describe cultural differences and similarities among the American Indian and Alaskan Native societies of North America.
- Describe and analyze the material, political, spiritual, and environmental contributions made by American Indian societies to the world.
- Identify the inappropriate uses of racial stereotypes about Indians and analyze how they have been used to advance special interests.
- Identify the major issues of the 20th and 21st century for American Indians, with an example on current events.

REQUIRED CORE COURSES		Units
AMIND 31	American Indian Culture.....	3
AMIND 32	American Indian History.....	3
AMIND 34	American Indian Contemporary Society .....	3
AMIND 35	American Indian Art.....	3

## AMERICAN SIGN LANGUAGE STUDIES

### – MAJOR #5505

This degree is designed to prepare students for transfer as a junior to a baccalaureate degree program in American Sign Language (ASL), Deaf Studies or Interpreting.

### ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

- Demonstrate ability to carry on a Sign Language conversation consistent with the ability of a 4th semester second language learner with a Deaf individual or groups of Deaf people.
- Categories and describe characteristics that impact a Deaf person's life in the following areas: the world of work, education, family, language and social development.
- Identify and compare beliefs, values, norms, traditions and attitudes reflected in Deaf culture, their subgroups and other cultures.
- Organize a plan to utilize career development tools and resources for use in the Deaf community.

REQUIRED CORE COURSES		Units
ASL 1	Beginning American Sign Language .....	4
ASL 2	High-Beginning American Sign Language .....	4
ASL 3	Intermediate American Sign Language .....	4
ASL 4	High-Intermediate American Sign Language .....	4
ASL 5	Deaf Culture .....	3
ASL 6	Structure of American Sign Language .....	3
ASL 7	Deaf History .....	3
ASL 8	American Sign Language Literature/Folklore.....	3

ELECTIVE COURSE (3 Units)		Units
ASL 20	Introduction to Interpreting.....	3
CHDEV 30	Child, Family and Community.....	3
LING 10/10H	Introduction to Language, <i>or</i> Honors Introduction to Language.....	3
		Total 31

*Note:*

Two of the following courses may be challenged according to Foreign Language Department policy: ASL 1, 2.

## ANTHROPOLOGY

### ANTHROPOLOGY FOR TRANSFER – MAJOR #7150

Anthropology is a program designed to acquaint students with human diversity through a broad approach to the study of people including the prehistoric, biological, and cultural perspectives. Because of its wide coverage, anthropology provides a versatile background that serves as a solid foundation for careers in many fields and vocations. The Associate in Arts in Anthropology for Transfer degree is designed for students who plan to complete a bachelor's degree in Anthropology at a CSU campus. The Associate in Arts in Anthropology for Transfer degree requires (1) The completion of 60 semester units that 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 in the Anthropology major. (2) Obtainment of a minimum grade point average of 2.0 and the grade of C or better in all courses required for the major. Students are strongly encouraged to meet with a counselor about transfer requirements (IGETC/CSU) early in their program. Anthropology students should also meet with anthropology faculty about course/program offerings as soon as possible once the major has been declared in order to complete the program in a timely manner.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

1. Demonstrate an understanding of anthropological approaches to the study of humanity: cross-cultural comparison and cultural relativity, holism, and evolutionary theory, and the uses of each.
2. Describe the breadth of anthropology and be able to characterize anthropology's distinctive methodological approaches with respect to the different subdisciplines.
3. Demonstrate understanding of human cultural diversity and biological variation through time.

#### REQUIRED CORE COURSES (3 courses or 9 units minimum)

	Units
ANTHRO 1	Biological Anthropology..... 3
ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology ..... 3
ANTHRO 4	Introduction to Archaeology ..... 3
Select 3-4 units from the following: <span style="float: right;">Units</span>	
ANTHRO 1L	Biological Anthropology Laboratory..... 1
ANTHRO 3	Archaeology and World Prehistory ..... 3
ANTHRO 8	Language and Culture, <i>or</i>
LING 10	Introduction to Language ..... 3
ANTHRO 13	Anthropology of Magic, Witchcraft, and Religion..... 3

Select 3-8 units from following courses or any courses not used in the section above: Units

BIOL 20	Human Anatomy..... 4
GEOL 1	Physical Geology ..... 4
GEOL 9	Introduction to Earth Science ..... 4
PSY/MATH 42	Statistics for the Behavioral Sciences, <i>or</i>
MATH 11	Elementary Statistics..... 4

Select 3-4 units from the following courses or any course not used in the sections above: Units

AFRAM 1	Introduction to African American Studies ..... 3
AMIND 31	American Indian Culture..... 3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society..... 3
ANTHRO 12	Visual Anthropology: Introduction to Ethnographic Film..... 3
ANTHRO 15	Laboratory Methods in Archaeology..... 4
ANTHRO 16A	Field Archaeology I ..... 2
ANTHRO 16B	Field Archaeology II ..... 2
ANTHRO 24	Doing Archaeology: Hands-On!..... 1.5
ANTHRO/CLS 28	Ancient Mexico ..... 3
ASAMER 15	Introduction to Asian-Americans..... 3
ASL 5	Deaf Culture ..... 3
CLS 11	Introduction to Chicano-Latino Studies..... 3
JOURN 16	Race, Gender and the Media..... 3
WSTS 10	Changing Roles of Women..... 3

## ANTHROPOLOGY – ARCHAEOLOGY

### ARCHAEOLOGICAL TECHNICIAN – MAJOR #7120

The Archaeological Technician Certificate of Achievement is a program designed to provide students with education and training in the various aspects of modern archaeology in preparation for 1) entry level employment, and 2) continuing education in archaeology. An archaeological technician may work in the field doing survey or excavation or in a laboratory processing archaeological collections, doing data entry, archival research, or other tasks related to the management of archaeological data, all under the direction of a professional archaeologist.

Students planning for a career in archaeology will need to earn at least a Bachelor's degree. Therefore archaeology students are strongly encouraged to meet with a counselor about transfer requirements (IGETC/CSU certification) early in their program. Archaeology students should also meet with the archaeology faculty about course/program offerings as soon as possible in order to complete the program in a timely manner.

## CERTIFICATE OF ACHIEVEMENT

### Student Learning Outcomes:

1. Students will demonstrate knowledge of terminology, methods, and theoretical framework of modern, scientific archaeology.
2. Students will have demonstrable skills in archaeological field methods.
3. Students will have demonstrable skills in archaeological laboratory methods.

REQUIRED CORE COURSES: (15 units)		Units
ANTHRO 1	Biological Anthropology.....	3
ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology .....	3
ANTHRO 4	Introduction to Archaeology .....	3
ANTHRO 15	Laboratory Methods in Archaeology.....	4
ANTHRO 16A	Field Archaeology I .....	2

### ELECTIVES (3 units minimum) Units

Students must complete a minimum of three units from the following list of electives. Other courses may be substituted based on the student's area of focus with faculty approval.

ANTHRO 1L	Biological Anthropology Laboratory .....	1
ANTHRO 3	Archaeology and World Prehistory.....	3
ANTHRO 16B	Field Archaeology II .....	2
ANTHRO 24	Doing Archaeology: Hands-On!.....	1.5
ANTHRO/CLS 28	Ancient Mexico .....	3
ANTHRO 30	Topics in Anthropology .....	1-4
GEOG 10	Introduction to GIS.....	3
*GEOL 1	Physical Geology .....	4
HIST 3	History of Ancient Rome.....	3
HIST 18	History of Ancient Greece.....	3
HIST 30	California History .....	3
Total		18

*\*This course is highly recommended for archaeology students.*

### SUGGESTED SEQUENCE OF COURSES

Recommended ANTHRO 2 be taken prior to other anthropology courses. ANTHRO 4 should be taken prior to ANTHRO 16A. Other courses may be taken in any sequence.

## APPLIED TECHNOLOGY

### EMPLOYMENT ESSENTIALS – MAJOR #8101

A step incentive certificate signifying proficiency in basic employment skills (includes soft skills, written and oral communication, and problem solving skills). May be awarded after successful completion of 9 units chosen from the list.

## CERTIFICATE OF ACHIEVEMENT

### Student Learning Outcomes:

1. Demonstrate an understanding and application of professional workplace behaviors.
2. Assess problems and determine a well thought out solution.
3. Identify and construct appropriate workplace oral and written communication.

Choose a minimum of nine units from the following courses:

	Units	
AT 10	Technical Computer Applications.....	3
AT 19	Work Experience (Cooperative), Occupational... 1-8	
AT 21	Occupational Safety and Health.....	2
AT 40	Preparing for Employment Opportunities .....	3
AT 130	Industrial Mathematics .....	3
AT 131	Technical Report Writing .....	3
Total		9

## ARCHITECTURE

### ARCHITECTURE – MAJOR #6810

This curriculum is designed to prepare students for employment with architects, engineers, interior designers, building contractors, building material companies and government agencies. It is also designed as basic coursework for transferring into advanced degree programs in architecture and related fields. Courses may or may not be transferable based on school to which you are transferring, course content, and quality/quantity of the student portfolio. Students are encouraged to take courses in the order listed. Not all courses are offered each semester. Students wishing to transfer into an advanced degree program should contact that particular college or university for all specific transfer requirements including, but not limited to Math and English. Additional courses are necessary to fulfill the requirements for the Associate in Science degree. Please refer to the current catalog for more information.

### ASSOCIATE IN SCIENCE DEGREE

#### Student Learning Outcomes:

1. Synthesize alternative solutions to a specific problem.
2. Design and complete an architectural education portfolio.
3. Draw a floor plan, foundation plan, roof framing plan, sections, and elevations.

First Year - Fall Semester		Units
ARCH 10	Architectural Design and Visualization I.....	3
ARCH 11	Introduction to Architecture and Environmental Design.....	2
ARCH 12	Architectural Practice I.....	2
ARCH 14	Digital Tools for Architects.....	2

First Year - Spring Semester		Units
ARCH 20	Architectural Design and Visualization II.....	3
ARCH 21	Materials of Construction.....	3
ARCH 22	Architectural Practice II.....	3
ARCH 24	Building Information Modeling.....	3
Second Year - Fall Semester		Units
ARCH 30	Architectural Design and Visualization III.....	3
ARCH 31	Building Codes.....	3
ARCH 32	Statics and Strength of Materials.....	3
ARCH 34	Digital Rendering.....	3
Second Year - Spring Semester		Units
ARCH 40	Architectural Design and Visualization IV.....	3
ARCH 41A	Office Practices.....	3
ARCH 42	Timber and Steel Structures.....	3
Total		42

*Note:* Students qualify for the certificate of achievement upon completion of the major requirements listed above. In addition, those completing the associate degree requirements on page 37 of the catalog, upon application, will be awarded the associate in science degree.

### ARCHITECTURE – MAJOR #6810

This certificate of achievement is designed to prepare students for employment with architects, engineers, interior designers, building contractors, building material companies and government agencies. It is also designed as basic coursework for transferring into advanced degree programs in architecture and related fields. Courses may or may not be transferable based on school to which you are transferring, course content, and quality/quantity of the student portfolio. Students are encouraged to take courses in the order listed. Not all courses are offered each semester. Students wishing to transfer into an advanced degree program should contact that particular college or university for all specific transfer requirements including, but not limited to Math and English.

#### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Synthesize alternative solutions to a specific problem.
2. Design and complete an architectural education portfolio.
3. Draw a floor plan, foundation plan, roof framing plan, sections, and elevations.

First Year - Fall Semester		Units
ARCH 10	Architectural Design and Visualization I.....	3
ARCH 11	Introduction to Architecture and Environmental Design.....	2
ARCH 12	Architectural Practice I.....	2
ARCH 14	Digital Tools for Architects.....	2
First Year - Spring Semester		Units
ARCH 20	Architectural Design and Visualization II.....	3
ARCH 21	Materials of Construction.....	3
ARCH 22	Architectural Practice II.....	3
ARCH 24	Building Information Modeling.....	3

Second Year - Fall Semester		Units
ARCH 30	Architectural Design and Visualization III.....	3
ARCH 31	Building Codes.....	3
ARCH 32	Statics and Strength of Materials.....	3
ARCH 34	Digital Rendering.....	3
Second Year - Spring Semester		Units
ARCH 40	Architectural Design and Visualization IV.....	3
ARCH 41A	Office Practices.....	3
ARCH 42	Timber and Steel Structures.....	3
Total		42

*Note:* Students qualify for the certificate of achievement upon completion of the major requirements listed above.

### BASIC ARCHITECTURAL CONTRACT DOCUMENTS – MAJOR #6811

This curriculum is designed to provide beginning knowledge and skills to individuals in the areas of architectural contract documents, accessibility and engineering principles.

#### CERTIFICATE

*Student Learning Outcomes:*

1. Demonstrate through drawing the technical elements of light, wood-frame construction.
2. Apply the correct accessibility regulations to a given project.
3. Calculate actual and allowable stresses.

REQUIRED COURSES		Units
ARCH 12	Architectural Practice I.....	2
ARCH 22	Architectural Practice II.....	3
ARCH 32	Statics and Strength of Materials.....	3
ARCH 42	Timber and Steel Structures.....	3
Total		11

### BASIC ARCHITECTURAL DESIGN – MAJOR #6812

This curriculum is designed to provide beginning knowledge and skills to individuals in the areas of architectural programming, design and presentation.

#### Certificate

*Student Learning Outcomes:*

1. Use various drawing systems to represent three dimensional objects/space on two dimensional surfaces.
2. Identify and express the essence of a design problem within the context of an architectural program.
3. Design and complete an educational portfolio.

REQUIRED COURSES		Units
ARCH 10	Architectural Design and Visualization I.....	3
ARCH 20	Architectural Design and Visualization II.....	3
ARCH 30	Architectural Design and Visualization III.....	3
ARCH 40	Architectural Design and Visualization IV.....	3
Total		12

**BASIC ARCHITECTURAL OFFICE PRACTICE**

– MAJOR #6813

This curriculum is designed to provide beginning knowledge and skills to individuals in the area of architectural practice.

**CERTIFICATE***Student Learning Outcomes:*

1. Compare different careers in architecture and related fields.
2. Compare and contrast the compatibility of different materials, their applications, cost and availability.
3. Analyze buildings for specific, detailed compliance with building codes.
4. Compare, contrast, and write different types of construction specifications.

REQUIRED COURSES		Units
ARCH 11	Introduction to Architecture and Environmental Design.....	2
ARCH 21	Materials of Construction.....	3
ARCH 31	Building Codes.....	3
ARCH 41A	Office Practices.....	3
Total		11

**BASIC ARCHITECTURE SKILLS 1 – MAJOR #6814**

This curriculum is designed to provide beginning knowledge and skills to individuals in the areas of architectural design, practice and CAD.

**CERTIFICATE***Student Learning Outcomes:*

1. Use problem solving and visualization techniques to synthesize solutions to specific design and drawing problems.
2. Compare different careers in architecture and related fields.
3. Demonstrate through drawing the technical elements of light, woodframe construction.
4. Construct basic 3D objects and stretch, extrude, and modify those objects using a computer aided drafting or computer aided modeling program.

REQUIRED COURSES		Units
ARCH 10	Architectural Design and Visualization I.....	3
ARCH 11	Introduction to Architecture and Environmental Design.....	2
ARCH 12	Architectural Practice I.....	2
ARCH 14	Digital Tools for Architects.....	2
Total		9

**BASIC ARCHITECTURE SKILLS 2 – MAJOR #6815**

Continuation of the Basic Architecture Skills 1 certificate. This curriculum is designed to further the knowledge and skills of individuals in the areas of architectural design, practice and CAD.

**CERTIFICATE***Student Learning Outcomes:*

1. Properly use color, its properties and relationships.
2. Compare and contrast the relationship of cost and availability of materials.
3. Complete minimal contract documents for a light, commercial building.
4. Draw exterior elevations and sections using a specified computer aided drafting or building information modeling program.

REQUIRED COURSES		Units
ARCH 20	Architectural Design and Visualization II.....	3
ARCH 21	Materials of Construction.....	3
ARCH 22	Architectural Practice II.....	3
ARCH 24	Building Information Modeling.....	3
Total		12

**BASIC DIGITAL ARCHITECTURE – MAJOR #6816**

This curriculum is designed to provide beginning knowledge and skills to individuals in the area of digital architecture tools including 3D computer modeling and presentation.

**CERTIFICATE***Student Learning Outcomes:*

1. Construct basic 3D objects and stretch, extrude, and modify those objects using a computer aided drafting or computer aided modeling program.
2. Apply materials, shade and shadow to a 3D model using a computer aided drafting or computer aided modeling program.
3. Draw a floor plan, exterior elevations and sections using a computer aided drafting or building information modeling program.
4. Create photorealistic and non-photorealistic images using a computer aided modeling or building information modeling program.

REQUIRED COURSES		Units
ARCH 14	Digital Tools for Architects.....	2
ARCH 24	Building Information Modeling.....	3
ARCH 34	Digital Rendering.....	3
Total		8

# ART

## ART - FORMERLY TWO-DIMENSIONAL ART - MAJOR #5205

The art degree signifies the completion of a comprehensive course of study in the visual arts. It provides a platform from which to build a career in the visual arts and further advancement towards a baccalaureate degree. An Associate in Art is a great way to develop critical and creative problem solving skills, enhance an ability to analyze complex visual information, and improve communication skills.

### ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Apply knowledge of art fundamentals in order to identify, formulate and resolve basic art and design problems.
2. Understand and use a variety of media and processes to accomplish artistic goals.
3. Demonstrate an ability to critique and analyze artwork visually, orally and in writing.
4. Understand the impact of art making in a global societal context.

**REQUIRED CORE COURSES (15 units) Units**

*ART 3	Two-Dimensional Design .....	3
*ART 4	Three-Dimensional Design.....	3
ART 5/5H	Art History Ancient to Medieval, <i>or</i> Honors Art History Ancient to Medieval .....	3
ART 6/6H	Art History Renaissance to Modern, <i>or</i> Honors Art History Renaissance to Modern .....	3
*ART 7	Beginning Drawing, <i>or</i>	
ART 8	Beginning Figure Drawing and Anatomy .....	3
Select a Minimum of 12 Units: (May take ART 7 or 8 if not taken in the core)		
ART 7	Beginning Drawing.....	3
ART 8	Beginning Figure Drawing and Anatomy .....	3
ART 9	Beginning Painting: Oil/Acrylic .....	3
ART 10	Beginning Ceramics.....	3
ART 11	Beginning Sculpture.....	3
ART 12A	Craft Workshop: Living Traditions .....	3
ART 12B	Intermediate Craft Workshop: Living Traditions .....	3
ART 13	Beginning Watercolor Painting.....	3
ART 14	Beginning Printmaking.....	3
ART 15	Ceramic Sculpture.....	3
ART 16	Life Painting .....	3
ART 17	Intermediate Drawing .....	3
ART 18	Intermediate Figure Drawing and Anatomy .....	3
ART 19	Intermediate Painting: Oil/Acrylic.....	3
ART 20	Intermediate Ceramics.....	3
ART 21	Intermediate Sculpture .....	3
ART 22B	Craft Workshop: Concepts in Fibers.....	3
ART 23	Intermediate Watercolor Painting .....	3
ART 24A	Intaglio Printmaking.....	3

ART 24B	Lithograph Printmaking.....	3
ART 24C	Relief Printmaking.....	3
ART 24D	Screenprinting.....	3
ART 25	Mural Painting .....	3
ART 25A	Intermediate Mural Painting .....	3
ART 28	Advanced Figure Drawing and Anatomy.....	3
ART 29	Advanced Painting: Oil/Acrylic.....	3
ART 31	Advanced Sculpture .....	3
ART 32A	Beginning Jewelry and Metalsmithing.....	3
ART 32B	Intermediate Jewelry and Metalsmithing .....	3
ART 36A	Intermediate Wheel Throwing .....	3
ART 38A	Intermediate Hand-Building .....	3
ART 52	Introduction to Digital Art/New Media .....	3
ART 55	Introduction to Asian Art .....	3
ART 60	Art of the Ancient Americas .....	3
	<b>Total</b>	<b>27</b>

*\*ART 3, ART 4, and ART 7 should be taken before other courses in the major.*

## ART HISTORY FOR TRANSFER – MAJOR #5206

The Associate in Arts in Art History for Transfer Degree offers a core foundation for the study of art history across cultures and eras. The program prepares students to continue their studies towards a degree in art history or studio arts at the California State University (CSU) and the University of California (UC) systems. Students will learn skills of analyzing art within its historical and cultural context using art-specific terminology and methodologies. To earn the Associate in Arts in Art History for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18-20 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Analyze a variety of techniques and formal visual elements of individual works of art in different media and diverse cultures.
2. Define and differentiate various styles of art throughout history.
3. Evaluate works of art in relation to context, historical background, and influence on subsequent artistic periods.
4. Compare stylistic elements that distinguish aesthetic and cultural trends.

<b>REQUIRED CORE</b>		<b>Units</b>
ART 5/5H	Art History Ancient to Medieval, <i>or</i> Honors Art History Ancient to Medieval .....	3
ART 6/6H	Art History Renaissance to Modern, <i>or</i> Honors Art History Renaissance to Modern .....	3
ART 7	Beginning Drawing.....	3

LIST A: Select one of the following:	Units
ART 55 Introduction to Asian Art .....	3
ART 60 Art of the Ancient Americas .....	3
LIST B: Select one of the following:	Units
ART 3 Two-Dimensional Design .....	3
ART 4 Three-Dimensional Design.....	3
ART 8 Beginning Figure Drawing and Anatomy .....	3
ART 9 Beginning Painting: Oil/Acrylic .....	3
ART 10 Beginning Ceramics .....	3
ART 11 Beginning Sculpture.....	3
ART 14 Beginning Printmaking.....	3
ART 52 Introduction to Digital Art/New Media .....	3

LIST C: Select one of the courses below or one from List A or List B not already taken:	Units
AFRAM 3 African-American Art.....	3
AMIND 35 American Indian Art.....	3
ANTHRO 3 Archaeology and World Prehistory .....	3
ANTHRO 4 Introduction to Archaeology .....	3
ARCH 15A History of Architecture I.....	3
ARCH 15B History of Architecture II.....	3
ART 70 Modern and Contemporary Art.....	3
CLS 20 Chicano Art .....	3
FILM 1 Introduction to Film Studies.....	3
FILM 3 Film and Culture .....	3
FRENCH 1 Beginning French.....	5
FRENCH 2 High-Beginning French.....	5
FRENCH 3 Intermediate French.....	5
GERMAN 1 Beginning German .....	5
GERMAN 2 High-Beginning German .....	5
HUMAN 10 Classical Humanities.....	3
HUMAN 11 Modern Humanities.....	3
PHIL 1A Theories of Knowledge and Reality.....	3
PHIL 1D World Religions .....	3
SPAN 1 Beginning Spanish.....	5
SPAN 2 High-Beginning Spanish.....	5
SPAN 3 Intermediate Spanish.....	5
SPAN 4 High-Intermediate Spanish.....	5
Total	18-20



## STUDIO ARTS FOR TRANSFER – MAJOR #5250

An Associate in Arts in Studio Arts for Transfer is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. An Associate in Arts in Studio Arts for Transfer is a great way to develop critical and creative problem solving skills, enhance an ability to analyze complex visual information, and improve communication skills. These assets will be valuable as a transfer student to a four-year institution, whether you major in art or some other field, and will enhance your preparation for a wide range of career opportunities. To earn the Associate in Arts in Studio Arts for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 24 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN ARTS

#### Student Learning Outcomes:

1. Apply knowledge of art fundamentals in order to identify, formulate, and resolve basic art and design problems.
2. Understand and use a variety of media and processes to accomplish artistic goals.
3. Demonstrate an ability to critique and analyze artwork visually, orally and in writing.
4. Understand the impact of art making in a global and societal context.

REQUIRED CORE (12 Units)	Units
*ART 3 Two-Dimensional Design .....	3
*ART 4 Three-Dimensional Design.....	3
ART 6/6H Art History Renaissance to Modern, <i>or</i> Honors Art History Renaissance to Modern .....	3
*ART 7 Beginning Drawing.....	3
LIST A: Select One (3 units)	Units
ART 5/5H Art History Ancient to Medieval, <i>or</i> Honors Art History Ancient to Medieval .....	3
ART 55 Introduction to Asian Art .....	3
ART 60 Art of the Ancient Americas.....	3

#### LIST B: Select three courses (9 units)

Select one course from three of the following areas (Drawing, Painting, Printmaking, Ceramics, Sculpture, or Applied Drawing)

	Units
ART 8 Beginning Figure Drawing and Anatomy, <i>or</i> ART 17 Intermediate Drawing, <i>or</i> ART 18 Intermediate Figure Drawing and Anatomy.....	3
ART 9 Beginning Painting: Oil/Acrylic, <i>or</i> ART 13 Beginning Watercolor Painting, <i>or</i> ART 19 Intermediate Painting: Oil/Acrylic, <i>or</i> ART 29 Advanced Painting: Oil/Acrylic.....	3



ART14	Beginning Printmaking, <i>or</i>	
ART 24A	Intaglio Printmaking, <i>or</i>	
ART 24B	Lithograph Printmaking, <i>or</i>	
ART 24C	Relief Printmaking, <i>or</i>	
ART 24D	Screenprinting .....	3
ART 10	Beginning Ceramics, <i>or</i>	
ART 20	Intermediate Ceramics .....	3
ART 11	Beginning Sculpture, <i>or</i>	
ART 15	Ceramic Sculpture, <i>or</i>	
ART 21	Intermediate Sculpture .....	3
ART 12A	Craft Workshop: Living Traditions, <i>or</i>	
ART 12B	Intermediate Craft Workshop: Living Traditions, <i>or</i>	
ART 22B	Craft Workshop: Concepts in Fibers, <i>or</i>	
ART 32A	Beginning Jewelry and Metalsmithing .....	3

\*ART 3, ART 4, and ART 7 should be taken before the other courses in the major.

## STUDIO ART - FORMERLY THREE-DIMENSIONAL ART – MAJOR #5210

Offers the student a fundamental understanding of art and studio practices by completing 18 art units. Students will build a comprehensive portfolio that reflects their media of choice.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Apply knowledge of art fundamentals in order to identify, formulate, and resolve basic art and design problems.
2. Understand and use a variety of media and processes to accomplish artistic goals.
3. Demonstrate an ability to critique and analyze artwork visually, orally, or in writing.

REQUIRED CORE	Units
*ART 3 Two-Dimensional Design .....	3
*ART 4 Three-Dimensional Design.....	3
*ART 7 Beginning Drawing.....	3

LIST A (9 units):	Units
ART 8 Beginning Figure Drawing and Anatomy .....	3
ART 9 Beginning Painting: Oil/Acrylic .....	3
ART 10 Beginning Ceramics.....	3
ART 11 Beginning Sculpture.....	3
ART 12A Craft Workshop: Living Traditions.....	3
ART 12B Intermediate Craft Workshop: Living Traditions .....	3
ART 13 Beginning Watercolor Painting.....	3
ART 14 Beginning Printmaking.....	3
ART 15 Ceramic Sculpture.....	3
ART 16 Life Painting.....	3
ART 17 Intermediate Drawing .....	3
ART 18 Intermediate Figure Drawing and Anatomy .....	3
ART 19 Intermediate Painting: Oil/Acrylic.....	3
ART 20 Intermediate Ceramics.....	3

ART 21	Intermediate Sculpture .....	3
ART 22B	Craft Workshop: Concepts in Fibers.....	3
ART 23	Intermediate Watercolor Painting .....	3
ART 24A	Intaglio Printmaking .....	3
ART 24B	Lithograph Printmaking.....	3
ART 24C	Relief Printmaking .....	3
ART 24D	Screenprinting.....	3
ART 25	Mural Painting .....	3
ART 25A	Intermediate Mural Painting .....	3
ART 27	Advanced Drawing .....	3
ART 28	Advanced Figure Drawing and Anatomy.....	3
ART 29	Advanced Painting: Oil/Acrylic.....	3
ART 31	Advanced Sculpture .....	3
ART 32A	Beginning Jewelry and Metalsmithing.....	3
ART 32B	Intermediate Jewelry and Metalsmithing .....	3
ART 36A	Intermediate Wheel Throwing.....	3
ART 38A	Intermediate Hand-Building .....	3
ART 40	Photography as Art.....	3
ART 52	Introduction to Digital Art/New Media.....	3
	Total	18

\*ART 3, ART 4, and ART 7 should be taken before other courses in the major.

## ASIAN AMERICAN STUDIES

### ASIAN AMERICAN STUDIES - MAJOR #7695

From an historical perspective, Asians have played major roles in Fresno from the early Chinese settlers who built a Chinatown to the Japanese Americans who were confined to an assembly center at the Fresno fairground to the Hmong refugees who fled from the aftermath of the Vietnam War to create the largest Hmong American community in the state of California. The structure and purpose of the Asian American Studies associate degree is twofold: one is to enhance the skills of students to successfully transfer and complete a baccalaureate degree, second is to provide knowledge and understanding of the Asian American as an individual and as a member of the Asian American community.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Identify and describe major historical experiences of Asians and Asian Americans.
2. Examine the cultural practices and evaluate how culture has evolved for the Asian American community.
3. Explore the identity dilemma for Asian Americans of the various generations from recent immigrants to the assimilated and acculturated Asian American family.
4. Evaluate the issues that have confronted Asians in the past as well as those relevant in a contemporary setting.

REQUIRED CORE COURSES		Units
ASMAER 1	Indo-Chinese Americans .....	3
ASAMER 8	Chinese Culture .....	3
ASAMER 15	Introduction to Asian-Americans .....	3
ASAMER 25	Asian American Social Issues .....	3
ASAMER 55	Introduction to Asian Art .....	3

COURSE OPTIONS (6 units)		Units
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society .....	3
ASAMER 10	Hmong Culture .....	3
CHIN 1	Beginning Chinese .....	5
CHIN 2	High-Beginning Chinese .....	5
HMONG 1	Beginning Hmong .....	5
HMONG 2	High-Beginning Hmong .....	5
JAPAN 1	Beginning Japanese .....	5
JAPAN 2	High-Beginning Japanese .....	5
Total		21

## AUTOMOTIVE COLLISION REPAIR TECHNOLOGY - FORMERLY BODY AND FENDER MECHANIC – MAJOR #8071

### MECHANIC – MAJOR #8071

Training in this field is designed to prepare the student for employment as an advanced apprentice trainee in body repairing, reconstruction finishing.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Straighten and fill damaged sheet metal.
2. Mix and apply body fillers, putty and plastic repair systems.
3. Remove and reattach body panels and align.

REQUIRED CORE COURSES		Units
ACRT 151	Basic ACR, <i>or</i>	
ACRT 151A	Basic ACR, <i>and</i>	
ACRT 151B	Basic ACR .....	9
ACRT 153	Advanced ACR, <i>or</i>	
ACRT 153A	Advanced ACR, <i>and</i>	
ACRT 153B	Advanced ACR .....	9
AT 10	Technical Computer Applications .....	3
AT 21	Occupational Safety and Health .....	2
AT 40	Preparing for Employment Opportunities .....	3
WELD 2A	Introduction to Welding Technology .....	6
Total		32

RECOMMENDED ELECTIVES		Units
ACRT 155	Spray Refinishing .....	2
AT 19	Work Experience (Cooperative), Occupational .....	1
AUTOT 54	Suspension, Steering, and Wheel Alignment .....	5

## AUTOMOTIVE COLLISION REPAIR TECHNOLOGY - FORMERLY BODY AND FENDER MECHANIC – MAJOR #8071

Training in this field is designed to prepare the student for employment in auto body repairing, reconstruction, and finishing.

### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

1. Straighten and fill damaged sheet metal.
2. Mix and apply body fillers, putty and plastic repair systems.
3. Remove and reattach body panels and align.

REQUIRED COURSES		Units
ACRT 151	Basic ACR, <i>or</i>	
ACRT 151A	Basic ACR, <i>and</i>	
ACRT 151B	Basic ACR .....	9
ACRT 153	Advanced ACR, <i>or</i>	
ACRT 153A	Advanced ACR, <i>and</i>	
ACRT 153B	Advanced ACR .....	9
AT 10	Technical Computer Applications .....	3
AT 21	Occupational Safety and Health .....	2
AT 40	Preparing for Employment Opportunities .....	3
WELD 2A	Introduction to Welding Technology .....	6
Total		32

RECOMMENDED ELECTIVES		Units
ACRT 155	Spray Refinishing .....	2
AT 19	Work Experience (Cooperative), Occupational .....	1-8
AUTOT 54	Suspension, Steering, and Wheel Alignment .....	5

## AUTOMOTIVE COLLISION REPAIR TECHNOLOGY - MAJOR #8072

Designed for students who wish to attend the Automotive Collision Course and go straight into the work force.

### CERTIFICATE

##### *Student Learning Outcome:*

1. Student will have the entry level skills needed for employment in an Automotive Collision Repair Facility.

REQUIRED COURSES		Units
ACRT 153	Advanced ACR, <i>or</i>	
ACRT 153A	Advanced ACR, <i>and</i>	
ACRT 153B	Advanced ACR .....	9
WELD 2A	Introduction to Welding Technology .....	6
Total		15

## AUTOMOTIVE TECHNOLOGY

### ALTERNATIVE FUELED VEHICLE (AFV)

- MAJOR #8078

Satisfactory completion of this curriculum prepares the student for employment as a Alternative Fueled Vehicle (AFV) service technician.

#### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

1. Create a diagnostic path for the Alternative Fueled Vehicle powertrain system to industry standards.
2. Recommend an appropriate repair procedure for a given vehicle Alternative Fueled Vehicle (AFV) powertrain system to industry standards.

REQUIRED CORE COURSES		Units
AUTOT 9	Automotive Essentials.....	3
AUTOT 19	Work Experience (Cooperative), Occupational.....	2
AUTOT/ATGM 52	Automotive Electrical Systems.....	4
AUTOT/ATGM 53	Engine Performance.....	4
AUTOT/ATGM 57	Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics.....	4
AUTOT 171A	Introduction to Alternative Fueled Vehicles (AFVs).....	2
AUTOT 171B	Service and Maintenance to Alternative Fueled Vehicles (AFVs).....	2
AUTOT 171C	Diagnosis and Repair to Alternative Fueled Vehicles (AFVs).....	2
Total		23

### AUTOMOTIVE TECHNOLOGY - MAJOR #8051

Satisfactory completion of this curriculum prepares the student for entry-level employment as a skilled technician in the automotive service and repair industry. Students will perform actual service and repair procedures in the automotive laboratory. This curriculum has been certified by the National Institute for Automotive Service Excellence (ASE) Education Foundation.

#### ASSOCIATE IN SCIENCE DEGREE AND

#### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

1. Create a diagnostic path appropriate for a given system to industry standards.
2. Recommend an appropriate repair procedure for a given system to industry standards.

REQUIRED COURSES		Units
AT 10	Technical Computer Applications.....	3
AUTOT 9	Automotive Essentials.....	3
AUTOT 19	Work Experience (Cooperative), Occupational.....	10
AUTOT 51	Principles of Engine Theory and Service.....	4
AUTOT 52	Automotive Electrical Systems.....	4
AUTOT 53	Engine Performance.....	4
AUTOT 54	Suspension, Steering, and Wheel Alignment.....	4
AUTOT 55	Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles.....	6
AUTOT 56	Automotive Braking Systems.....	4
AUTOT 57	Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics.....	4
AUTOT 161A	Level 1 – Engine and Emission Control Fundamentals.....	3
AUTOT 161B	Level 2 – Smog Check Procedures Training.....	1.5
WELD 1	Exploring Welding/Metals.....	3
ELECTIVES (4 units)		Units
AUTOT 58	Individualized Skills Training (IST) Chassis System I Laboratory.....	1
AUTOT 58A	Individualized Skills Training (IST) Chassis System II Laboratory.....	1
AUTOT 58B	Individualized Skills Training (IST) Engine/Propulsion Systems Laboratory.....	1
AUTOT 58C	Individualized Skills Training (IST) Power Train Systems Laboratory.....	1
Total		57.5

#### RECOMMENDED SEQUENCE

First Year - First Semester		Units
AT 10	Technical Computer Applications.....	3
AUTOT 9	Automotive Essentials.....	3
WELD 1	Exploring Welding/Metals.....	3
First Year - Second Semester		Units
AUTOT 52	Automotive Electrical Systems.....	4
AUTOT 53	Engine Performance.....	4
First Year - Third Semester		Units
AUTOT 19	Work Experience (Cooperative), Occupational.....	3
AUTOT 51	Principles of Engine Theory and Service.....	4
Second Year - First Semester		Units
AUTOT 19	Work Experience (Cooperative), Occupational.....	3
AUTOT 54	Suspension, Steering, and Wheel Alignment.....	4
AUTOT 56	Automotive Braking Systems.....	4
AUTOT 58	Individualized Skills Training (IST) Chassis System I Laboratory.....	1
AUTOT 58A	Individualized Skills Training (IST) Chassis System II Laboratory.....	1

Second Year - Second Semester		Units
AUTOT 19	Work Experience (Cooperative), Occupational .....	2
AUTOT 55	Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles .....	6
AUTOT 57	Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics .....	4
AUTOT 161A	Level 1 – Engine and Emission Control Fundamentals.....	3
AUTOT 161B	Level 2 – Smog Check Procedures Training .....	1.5
Second Year - Third Semester		Units
AUTOT 19	Work Experience (Cooperative), Occupational .....	2
AUTOT 58B	Individualized Skills Training (IST) Engine/Propulsion Systems Laboratory.....	1
AUTOT 58C	Individualized Skills Training (IST) Power Train Systems Laboratory.....	1

### CHASSIS TECHNICIAN – MAJOR #8053

Satisfactory completion of this curriculum prepares the student for employment as an automotive chassis service technician.

#### CERTIFICATE

##### *Student Learning Outcomes:*

1. Create a diagnostic path appropriate for a given system.
2. Recommend an appropriate repair strategy for a given system to industry standards.

Completion of the following courses and 3 units of work experience:

		Units
AUTOT 19	Work Experience (Cooperative), Occupational.....	3
AUTOT 282A	Suspension and Wheel Alignment.....	3
AUTOT 282B	Automotive Braking Systems.....	3
AUTOT 283B	Electrical Systems .....	3
AUTOT 284	Automotive Air Conditioning.....	3
Total		15

### CHASSIS TECHNICIAN I – MAJOR #8056A

Satisfactory completion of this curriculum prepares the student for employment as an automotive chassis service technician level I.

#### CERTIFICATE

##### *Student Learning Outcomes:*

1. Create a diagnostic path appropriate for a given system to industry standards.
2. Recommend an appropriate repair strategy for a given system to industry standards.

REQUIRED COURSES		Units
AUTOT 19	Work Experience (Cooperative), Occupational.....	2
AUTOT/ATGM 54	Suspension, Steering, and Wheel Alignment.....	4
AUTOT/ATGM 56	Automotive Braking Systems.....	4
Total		10

### CHASSIS TECHNICIAN II – MAJOR #8056B

Satisfactory completion of this curriculum prepares the student for employment as an automotive chassis service technician level II.

#### CERTIFICATE

##### *Student Learning Outcomes:*

1. Create a diagnostic path appropriate for a given system to industry standards.
2. Recommend an appropriate repair strategy for a given system to industry standards.

REQUIRED COURSES		Units
AUTOT 19	Work Experience (Cooperative), Occupational.....	2
AUTOT/ATGM 52	Automotive Electrical Systems .....	4
AUTOT/ATGM 57	Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics.....	4
Total		10

### DIESEL TECHNOLOGY – MAJOR #8059

Satisfactory completion of this curriculum prepares the student for entry-level employment as a skilled technician in the diesel technology service and repair industry. Students will perform actual service and repair procedures in the diesel technology laboratory. This curriculum has been certified by the National Institute for Automotive Service Excellence (ASE) Education Foundation.

#### ASSOCIATE IN SCIENCE AND CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

1. Create a diagnostic path appropriate for a given system to industry standards.
2. Demonstrate the appropriate repair procedure for a given system to industry standards.

REQUIRED COURSES		Units
AT 10	Technical Computer Applications.....	3
AUTOT 10	Introduction to Diesel Technology .....	3
AUTOT 19	Work Experience (Cooperative), Occupational....	12
AUTOT 61	Diesel Engines .....	4
AUTOT 62	Electrical/Electronics for Diesel Technology.....	4
AUTOT 63	Diesel Fuel and Emission Systems.....	4
AUTOT 64	MD/HD Suspension, Steering, and Alignment.....	4
AUTOT 65	MD/HD Powertrain Systems.....	6
AUTOT 66	MD/HD Brakes and Preventative Maintenance I Inspection (PMI) .....	4
AUTOT 67	MD/HD Heating, Ventilation, Air Conditioning and Advanced Electronics .....	4
WELD 1	Exploring Welding/Metals .....	3

ELECTIVE COURSES		Units
AUTOT 68	Individualized Skills Training (IST) Truck & Bus Chassis System I Laboratory.....	1
AUTOT 68A	Individualized Skills Training (IST) Truck & Bus Chassis System II Laboratory.....	1
AUTOT 68B	Individualized Skills Training (IST) Truck & Bus Engine/Propulsion Systems.....	1
AUTOT 68C	Individualized Skills Training (IST) Truck & Bus Power Train Systems Laboratory.....	1
Total		55

### EMISSION TECHNICIAN – MAJOR #8054

Satisfactory completion of this curriculum prepares the student for employment as an emission service technician.

#### CERTIFICATE

##### *Student Learning Outcomes:*

1. Create a diagnostic path appropriate for a given system to industry standards.
2. Recommend an appropriate repair strategy for a given system to industry standards.

REQUIRED COURSES		Units
AUTOT 161	BAR Specified Diagnosis and Repair Training .....	3
AUTOT 161A	Level 1 – Engine and Emission Control Fundamentals.....	3
AUTOT 161B	Level 2 – Smog Check Procedures Training.....	1.5
AUTOT 283A	Engine Performance and Diagnosis.....	3
AUTOT 283B	Electrical Systems .....	3
Total		13.5

### EMISSION TECHNICIAN I – MAJOR #8057A

Satisfactory completion of this curriculum prepares the student for employment as an emission service technician level I.

#### CERTIFICATE

##### *Student Learning Outcomes:*

1. Create a diagnostic path appropriate for a given system to industry standards.
2. Recommend an appropriate repair strategy for a given system to industry standards.

REQUIRED COURSES		Units
AUTOT/ATGM 52	Automotive Electrical Systems .....	4
AUTOT/ATGM 53	Engine Performance .....	4
AUTOT 161	BAR Specified Diagnosis and Repair Training .....	3
Total		11

### EMISSION TECHNICIAN II – MAJOR #8057B

Satisfactory completion of this curriculum prepares the student for employment as an emission service technician level II.

#### CERTIFICATE

##### *Student Learning Outcomes:*

1. Create a diagnostic path appropriate for a given system to industry standards.
2. Recommend an appropriate repair strategy for a given system to industry standards.

REQUIRED COURSES		Units
AUTOT 19	Work Experience (Cooperative), Occupational.....	2
AUTOT 161A	Level 1 – Engine and Emission Control Fundamentals.....	3
AUTOT 161B	Level 2 – Smog Check Procedures Training.....	1.5
Total		6.5

### HYBRID ELECTRIC VEHICLE (HEV) – MAJOR #8079

Satisfactory completion of this curriculum prepares the student for employment as a hybrid service technician.

#### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

1. Create a diagnostic path for the hybrid electric vehicle (HEV) to industry standards.
2. Recommend an appropriate repair procedure for a given vehicle's hybrid electric vehicle system to industry standards.

REQUIRED COURSES		Units
AUTOT 9	Automotive Essentials .....	3
AUTOT 19	Work Experience (Cooperative), Occupational.....	2
AUTOT/ATGM 52	Automotive Electrical Systems .....	4
AUTOT/ATGM 53	Engine Performance .....	4
AUTOT/ATGM 57	Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics.....	4
AUTOT 170A	Introduction to Hybrid Electric Vehicles (HEVs) ...	2
AUTOT 170B	Service and Maintenance to Hybrid Electric Vehicles (HEVs) .....	2
AUTOT 170C	Diagnosis and Repair to Hybrid Electric Vehicles (HEVs) .....	2
Total		23

**POWERTRAIN TECHNICIAN – MAJOR #8055**

Satisfactory completion of this curriculum prepares the student for employment as an automotive powertrain service technician.

**CERTIFICATE**

*Student Learning Outcomes:*

1. Create a diagnostic path for a given system to industry standards.
2. Recommend an appropriate repair strategy for a given system to industry standards.

REQUIRED COURSES		Units
AUTOT 19	Work Experience (Cooperative), Occupational.....	1
AUTOT 281A	Automotive Power Trains I.....	3
AUTOT 281B	Automotive Power Trains II.....	3
AUTOT 283A	Engine Performance and Diagnosis.....	3
AUTOT 283B	Electrical Systems.....	3
AUTOT 285	Automotive Engines.....	3
Total		16

**POWERTRAIN TECHNICIAN I – MAJOR #8058A**

Satisfactory completion of this curriculum prepares the student for employment as an automotive powertrain service technician level I.

**CERTIFICATE**

*Student Learning Outcomes:*

1. Create a diagnostic path for a given system to industry standards.
2. Recommend an appropriate repair strategy for a given system to industry standards.

REQUIRED COURSES		Units
AUTOT 19	Work Experience (Cooperative), Occupational.....	2
AUTOT/ATGM 51	Principles of Engine Theory and Service.....	4
AUTOT/ATGM 53	Engine Performance.....	4
Total		10

**POWERTRAIN TECHNICIAN II – MAJOR #8058B**

Satisfactory completion of this curriculum prepares the student for employment as an automotive powertrain service technician level II.

**CERTIFICATE**

*Student Learning Outcomes:*

1. Create a diagnostic path for a given system to industry standards.
2. Recommend an appropriate repair strategy for a given system to industry standards.

REQUIRED COURSES		Units
AUTOT 19	Work Experience (Cooperative), Occupational.....	2
AUTOT/ATGM 52	Automotive Electrical Systems.....	4
AUTOT/ATGM 55	Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles.....	6
Total		12

**GENERAL MOTORS ASEP PROGRAM**

– MAJOR #805G

The General Motors Automotive Service Educational Program (GM ASEP) is a two-year associate degree program. GM ASEP incorporates the most advanced automotive technical training with a strong academic foundation in math, English, electronics, analytical and technical skills. The student earns a solid education combined with invaluable work experience for hands-on learning.

The National Institute of Automotive Service Excellent (ASE) Education Foundation and General Motors Corporation certify this curriculum.

**ASSOCIATE IN SCIENCE DEGREE**

*Student Learning Outcomes:*

1. Create a diagnostic path appropriate for a given system to industry standards.
2. Demonstrate the appropriate repair procedure for a given system to industry standards.

REQUIRED COURSES		Units
AT 10	Technical Computer Applications.....	3
ATGM 51	Principles of Engine Theory and Service.....	4
ATGM 52	Automotive Electrical Systems.....	4
ATGM 53	Engine Performance.....	4
ATGM 54	Suspension, Steering, and Wheel Alignment.....	4
ATGM 55	Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles.....	6
ATGM 56	Automotive Braking Systems.....	4
ATGM 57	Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics.....	4
AUTOT 9	Automotive Essentials.....	3
AUTOT 19	Work Experience (Cooperative), Occupational....	12
AUTOT 161A	Level 1 – Engine and Emission Control Fundamentals.....	3
AUTOT 161B	Level 2 – Smog Check Procedures Training.....	1.5
<b>ELECTIVES (4 units)</b>		<b>Units</b>
AUTOT 58	Individualized Skills Training (IST) Chassis System I Laboratory.....	1
AUTOT 58A	Individualized Skills Training (IST) Chassis System II Laboratory.....	1
AUTOT 58B	Individualized Skills Training (IST) Engine/ Propulsion Systems Laboratory.....	1
AUTOT 58C	Individualized Skills Training (IST) Power Train Systems Laboratory.....	1
Total		56.5

**RECOMMENDED SEQUENCE**

First Year - Fall Semester		Units
AT 10	Technical Computer Applications.....	3
ATGM 54	Suspension, Steering, and Wheel Alignment.....	4
ATGM 56	Automotive Braking Systems.....	4
AUTOT 9	Automotive Essentials.....	3

First Year - Spring Semester	Units
ATGM 52 Automotive Electrical Systems .....	4
AUTOT 19 Work Experience (Cooperative), Occupational.....	3
First Year - Summer Semester	Units
ATGM 51 Principles of Engine Theory and Service.....	4
AUTOT 19 Work Experience (Cooperative), Occupational.....	3
Second Year - Fall Semester	Units
ATGM 53 Engine Performance .....	4
AUTOT 19 Work Experience (Cooperative), Occupational.....	3
Second Year - Spring Semester	Units
ATGM 55 Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles.....	6
AUTOT 19 Work Experience (Cooperative), Occupational.....	3
AUTOT 161A Level 1 – Engine and Emission Control Fundamentals.....	3
AUTOT 161B Level 2 – Smog Check Procedures Training.....	1.5
Second Year - Summer Semester	Units
ATGM 57 Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics.....	4

## BIOLOGY – FORMERLY LIFE SCIENCE DEGREE

– MAJOR #6082

The Associate Degree in Biology provides a foundation for students wishing to explore or pursue a wide range of fields in the Biological Sciences. The course pathway for this degree is more flexible than the Associate Degree for Transfer in Biology, allowing students to match their non-biological courses to their intended academic or career goal. Students completing this degree will fulfill the core biology requirements for transfer to a CSU or UC, but without the guarantees offered by the Associate Degree for Transfer. Please speak with a transfer counselor for more information about the benefits of the Associate Degree and the Associate Degree for Transfer.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. Evaluate scientific literature and apply the scientific method to obtain and interpret data.
2. Describe the classes of organic molecules found in organisms and discuss their importance in biological systems.
3. Understand cellular processes and relate organelle structure to function.
4. Understand the structure and function to genetic material and apply the principles of genetics as they relate to organisms.
5. Appreciate biodiversity and understand the impact of human activity on ecological systems.
6. Explain the mechanisms of evolution and evaluate the scientific evidence to support it.

Required Core – Select One Biology Sequence	Units
BIOL 11A Biology for Science Majors I, <i>and</i>	
BIOL 4 Principles of Zoology, <i>or</i>	
BIOL 6 Principles of Botany, <i>or</i>	
BIOL 11B Biology for Science Majors II.....	10
Required Core – Select One Chemistry Course	Units
CHEM 1A General Chemistry.....	5
CHEM 3A Introductory General Chemistry .....	4
Electives: Choose one to two courses from the following to make a minimum of 18 units total (Note: BIOL 4 or 6 can be used if they have not been used to complete the core requirement):	Units
BIOL 4 Principles of Zoology .....	5
BIOL 5 Human Biology .....	4
BIOL 6 Principles of Botany .....	5
BIOL 7 Field Biology .....	5
BIOL 14 Conservation Biology.....	3
BIOL 31 Microbiology.....	5
BIOL 46 Elementary Horticulture.....	3.5
CHEM 1B General Chemistry and Qualitative Analysis.....	5
CHEM 3B Introductory Organic & Biological Chemistry.....	4
GEOL 2 Historical Geology.....	3
GEOL 5 Introduction to Oceanography.....	3
GEOL 12 Environmental Science.....	3
Total	18-20

## BIOLOGY FOR TRANSFER – MAJOR #6082

The goal of the Associate in Science in Biology for Transfer program at Fresno City College is to award students with an associate degree, and provide them with special benefits/guarantees upon transfer to a CSU baccalaureate program in Biology. This degree may also prepare students to transfer into a UC baccalaureate program in Biology. To earn the Associate in Science in Biology for Transfer, students must complete 60 semester units or 90 quarter units that 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. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. Local graduation requirements are not required for the transfer degree. Please speak with a transfer counselor for more information about the benefits of the Associate of Science in Biology for Transfer and the Associate of Science degree.

## ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Evaluate scientific literature and apply the scientific method to obtain and interpret data.
2. Understand the function of organic molecules in biological systems and relate organelle structure to cellular function.
3. Understand the structure and function of genetic material and apply the principles of genetics as they relate to organisms.
4. Understand the biodiversity of life on earth based on modern classification systems.
5. Understand the ecological relationships between organisms and the environment, and the impact of human activity on ecological systems.
6. Understand the scientific evidence for evolution and explain the mechanisms leading to evolutionary change over time.

REQUIRED CORE	Units
BIOL 11A	Biology for Science Majors I ..... 5
CHEMISTRY & MATH REQUIREMENTS	Units
CHEM 1A	General Chemistry, <i>and</i>
CHEM 1B	General Chemistry and Qualitative Analysis ..... 10
MATH 5A	Mathematical Analysis I ..... 5
SELECT ONE SEQUENCE:	Units
BIOL 11B	Biology for Science Majors II, <i>or</i> ..... 5
BIOL 4	Principles of Zoology, <i>and</i>
BIOL 6	Principles of Botany ..... 10
SELECT ONE PHYSICS SEQUENCE:	Units
PHYS 2A	General Physics 1, <i>and</i>
PHYS 2B	General Physics 2, <i>or</i> ..... 8
PHYS 4A	Physics for Scientists and Engineers, <i>and</i>
PHYS 4B	Physics for Scientists and Engineers ..... 8
Total	33-38

## FIELD BIOLOGIST – MAJOR #6083

The Field Biologist Certificate is a program designed to provide students with education and training in various aspects of field biology in preparation for 1) entry level employment in the environmental consulting field or government agencies 2) entry level field research assistant and 3) continuing education in biology. A certificated field biologist may work in the field doing plant and animals surveys, threatened and endangered species surveys, sensitive habitat delineation, biological construction monitoring or scientific data collection, all under the direction of qualified professional biologists. Students planning for a career in biology in most cases will need to earn at least a Bachelor's Degree. Therefore, biology students are strongly encouraged to meet with a counselor about transfer requirements (IGETC/CSU certification) early in their program. Biology students should also meet with biology faculty about course/program offerings as soon as possible in order to complete the program in a timely manner.

## CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Apply field sampling techniques that qualitatively and quantitatively measure and describe the role of a living organism in its environment.
2. Identify major habitat types and ecological phenomena in the field.
3. Describe the natural history of select plants, animals, and fungi of California.
4. Correctly use various plant and animal taxonomic keys.

REQUIRED CORE COURSES	Units
BIOL 7	Field Biology ..... 5
BIOL 11A	Biology for Science Majors I ..... 5
SELECT ONE SEQUENCE:	Units
BIOL 11B	Biology for Science Majors II, <i>or</i> ..... 5
BIOL 4	Principles of Zoology, <i>and</i>
BIOL 6	Principles of Botany ..... 10
ELECTIVES:	Units
Students that take the sequence BIOL 4, 6, and 7 must complete a minimum of 2 units. The alternative sequence of BIOL 11B and 7 must take 7 units. Electives may be taken in any sequence. GEOL 1 is highly recommended. (2-7 units)	
ANTHRO 16A	Field Archaeology I ..... 2
GEOG 1	Physical Geography ..... 4
GEOG 10	Introduction to GIS ..... 3
GEOL 1	Physical Geology ..... 4
GEOL 3	Geology Field Studies ..... 1
GEOL 4	Geology of California ..... 3
Total	22

## BUSINESS ADMINISTRATION

## BUSINESS ADMINISTRATION - MAJOR #2050

The following courses are required for the Associate in Arts degree in Business Administration.

## ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Demonstrate the ability to create and analyze the four basic financial statements and budgets and recognize and evaluate opportunity and risk.
2. Assist in the formulation and implementation of a corporate strategy.
3. Demonstrate the appropriate application of ethics, laws and soft skills required for the work environment including customer service, teambuilding, conflict management, time management, communication, and professional behavior.
4. Demonstrate the appropriate application of management theory relating to the functions of planning, organizing, leading and controlling for established businesses and entrepreneurial ventures.



First Year - First Semester		Units
**BA 10	Introduction to Business .....	3
*CIT 15	Computer Concepts .....	3
*DS 21	Finite Mathematics .....	3
First Year - Second Semester		Units
*BA 18	Business and the Legal Environment.....	4
*DS 23	Business Statistics .....	3
Second Year - First Semester		Units
*ACCTG 4A	Financial Accounting.....	4
****BA 20	Law and the Legal System.....	3
*ECON 50/50H	Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomic.....	3
Second Year - Second Semester		Units
*ACCTG 4B	Managerial Accounting .....	4
*ECON 40/40H	Introduction of Microeconomics, <i>or</i> Honors Introduction of Microeconomics.....	3
Total		33

\*CSU, Fresno transfer courses required to enter the School of Business at CSUF  
 \*\*Transfers as an elective  
 \*\*\*\*Satisfies CSUF's GE, Area D, and FCC's GE, Area B  
 Note: Associate degree requirements are listed on page 37.

## BUSINESS ADMINISTRATION FOR TRANSFER

- MAJOR #2049

Business is an exciting major for students with a variety of interests and career goals including options in entrepreneurship, marketing, business law, management, computer information systems, accounting, and finance. The Associate in Science in Business Administration for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the Associate in Science in Business Administration degree, students must complete 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 27 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students must consult with a counselor when planning to complete the degree for additional information on university admission and transfer requirements. In addition to the 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate in Science in Business Administration for Transfer degree.

### ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Apply knowledge of major business functions (accounting, quantitative, law, computer, and business concepts) and its methodologies and ethical applications in common business situations.
2. Apply professional behaviors in both business and personal situations.

REQUIRED CORE		Units
ACCTG 4A	Financial Accounting.....	4
ACCTG 4B	Managerial Accounting .....	4
BA 18	Business and the Legal Environment.....	4
CIT 15	Computer Concepts .....	3
*ECON 40/40H	Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics.....	3
*ECON 50/50H	Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics.....	3
Choose 2 of the following:		Units
BA 10	Introduction to Business .....	3
*DS 21	Finite Mathematics .....	3
*DS 23	Business Statistics .....	3
Total		27

\*May be used to fulfill General Education requirements.

## 21ST CENTURY WORK COMPETENCIES

- MAJOR #2035

A step incentive certificate signifying proficiency in basic knowledge and skills related to human relations and general business concepts required for success in today's competitive economy.

### CERTIFICATE

*Student Learning Outcomes:*

1. Demonstrate an understanding and application of human relations and professional workplace behaviors.
2. Identify, assess and critically evaluate basic business theory, functions, and skills required to manage effectively in a complex global environment.

COURSES		Units
BA 10	Introduction to Business .....	3
BA 33	Human Relations in the Workplace.....	3
Total		6

## ENTREPRENEURIAL VENTURES – MAJOR #2041

This certificate is designed to provide visual artists, musicians, artisans, engineers, technologists and other non-business majors and other skilled individuals with the necessary knowledge to launch a business and/or market their creations. These courses are focused on the start-up phases of a business.

### CERTIFICATE

*Student Learning Outcomes:*

1. Complete a business plan.
2. Appropriate business theory relating to the functions of operations, management, marketing, accounting, technology and finance.
3. Demonstrate basic workplace written, verbal, non-verbal communication, negotiation, and soft skills required for the workplace.

REQUIRED COURSES		Units
BA 10	Introduction to Business .....	3
BA 51	Business Planning and New Venture Launch ....	1.5
BA 52	Introduction to Entrepreneurship .....	3
ELECTIVE COURSES		Units
Select 1 course from the following		
BA 24	Negotiations .....	1.5
BA 27	Entrepreneurship Startup Lab .....	1-3
BA 30	Personal Finance.....	3
Total		8.5-10.5

## HUMAN RESOURCE MANAGEMENT ASSISTANT

- MAJOR #2052

A step incentive certificate signifying proficiency in basic knowledge and skills required for an entry-level human resource assistant.

### CERTIFICATE

*Student Learning Outcomes:*

1. Describe basic computer software and appropriate applications.
2. Demonstrate the appropriate application of State and Federal HR laws to business situations.
3. Demonstrate the appropriate application for each of the primary HR functions.
4. Demonstrate effective communication skills through speaking, writing, and other common forms of business communication including the appropriate use of communication devices.
5. Define and describe how to take personal responsibility for professional and effective workplace relationships.

COURSES		Units
BA 31	Human Resource Management.....	3
BA 33	Human Relations in the Workplace.....	3
BT 9	Computer Applications I, <i>or</i>	
BT 25	Microsoft Office .....	3-4
Total		9-10

## BUSINESS ADMINISTRATION, MANAGEMENT

### BUSINESS ADMINISTRATION, MANAGEMENT

- MAJOR #2181

Business Administration degree designed to provide a basic understanding of and proficiency in the important functional areas related to business management.

## ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Appropriate application of management theory relating to the functions of planning, organizing, leading, and controlling as it relates to existing business and entrepreneurial ventures.
2. Ability to create and analyze the four basic financial statements and budgets, ability to perform time value of money calculations and recognize and evaluate opportunity and risk.
3. Assist in formulation and implementation of a corporate strategy.
4. Demonstrate basic workplace written, verbal, and non-verbal communication skills including the proper use of appropriate technologies, written reports, and formal presentations.
5. Demonstrate the appropriate application of ethics, laws and soft skills required for the work environment.

### REQUIRED CORE COURSES

ACCTG 4A	Financial Accounting, <i>or</i>	
BT 131	Applied Accounting.....	3.5-4
BA/BT 5	Workplace Communication .....	3
BA 10	Introduction to Business .....	3
BA 18	Business and the Legal Environment.....	4
BA 30	Personal Finance.....	3
BA 31	Human Resource Management.....	3
BA 33	Human Relations in the Workplace.....	3
*BA 40	Supervision and Leadership, <i>or</i>	
BA 43	Principles of Management .....	3
CIT 15	Computer Concepts .....	3
MKTG 10	Principles of Marketing .....	3

### ELECTIVES: Select 6 Units

**ACCTG 4A	Financial Accounting.....	4
BA 28	E-Law & Ethics.....	3
BA 34	Fundamentals of Investing .....	3
BA 35	Financial Management for Entrepreneurs and Small Business.....	3
BA 38	Operation of the Small Business .....	3
*BA 40	Supervision and Leadership .....	3
*BA 43	Principles of Management.....	3
BA 52	Introduction to Entrepreneurship .....	3
**BT 131	Applied Accounting.....	3.5
MKTG 11	Selling and Sales Management .....	3
MKTG 12	Advertising and Promotion.....	3
MKTG 14	Retailing.....	3
MKTG 21	Digital Marketing.....	3
RE 40	Real Estate Principles.....	3
RE 41	Real Estate Practice .....	3
Total		37.5-38

*\*Either BA 40 or BA 43 may be taken as a required course. The other class option may be taken as an elective course.*

*\*\*Either ACCTG 4A or BT 131 may be taken as a required course. The other class option may be taken as an elective course.*

*Note: Associate degree requirements are listed on page 37.*

**BUSINESS ADMINISTRATION, MANAGEMENT**

– MAJOR #2181

A certificate of achievement in Business Administration may be awarded for the successful completion of 20 units. The 20 units must include the required core courses plus any of the elective courses listed below.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Appropriately apply the management functions of planning, organizing, leading and controlling.
2. Read and interpret basic financial statements.
3. Assist in the formulation and implementation of a corporate strategy.
4. Demonstrate proficiency in soft skills required for workplace success including teambuilding, conflict management, communication, and professional behavior.
5. Utilize basic workplace written, verbal, and nonverbal communication skills required to the workplace, including the proper use of appropriate technologies, written reports, and formal presentations.

REQUIRED CORE COURSES	Units
BA/BT 5 Workplace Communication .....	3
BA 10 Introduction to Business .....	3
BA 33 Human Relations in the Workplace.....	3
*BA 40 Supervision and Leadership, <i>or</i>	
BA 43 Principles of Management .....	3

ELECTIVES: Select 8 Units	Units
ACCTG 4A Financial Accounting.....	4
BA 18 Business & the Legal Environment.....	4
BA 20 Law & the Legal System.....	3
BA 28 E-Law & Ethics.....	3
BA 30 Personal Finance.....	3
BA 31 Human Resource Management.....	3
BA 34 Fundamentals of Investing .....	3
BA 35 Financial Management for Entrepreneurs and Small Business.....	3
BA 38 Operation of the Small Business .....	3
*BA 40 Supervision and Leadership.....	3
*BA 43 Principles of Management.....	3
BA 51 Business Planning & New Venture Launch .....	1.5
BT 131 Applied Accounting.....	3.5
CIT 15 Computer Concepts .....	3
MKTG 10 Principles of Marketing .....	3
MKTG 11 Selling and Sales Management .....	3
MKTG 12 Advertising and Promotion.....	3
MKTG 14 Retailing.....	3
MKTG 21 Digital Marketing.....	3
RE 40 Real Estate Principles.....	3
RE 41 Real Estate Practice .....	3
Total	20

\* Either BA 40 or BA 43 may be taken as a required course. The other class option may be taken as an elective course.

**BUSINESS FINANCE AND ACCOUNTING**

– MAJOR #2031

A step incentive for those seeking an entry level position in accounting or finance.

**CERTIFICATE***Student Learning Outcomes:*

1. Ability to create and analyze the four basic financial statements and budgets and recognize and evaluate opportunity and risk.
2. Assist in the implementation of a corporate strategy as applied to finance and accounting issues including capital budgeting and working capital management.
3. Demonstration of appropriate skill sets with respect to technologies, written reports, and formal presentations involving finance and accounting applications.
4. Ability to identify and discriminate between different financial markets, institutions and products and determine appropriateness to short-term and long-term accounting and finance objectives.

REQUIRED COURSES	Units
ACCTG 4A Financial Accounting.....	4
ACCTG 4B Managerial Accounting .....	4
BA 35 Financial Management for Entrepreneurs and Small Business.....	3

**BUSINESS FINANCE AND INVESTMENTS**

– MAJOR #2271

A step incentive for those seeking an entry level position in banking or finance.

**CERTIFICATE***Student Learning Outcomes:*

1. Ability to create and analyze the four basic financial statements and budgets and recognize and evaluate opportunity and risk.
2. Assist in the implementation of a corporate strategy as applied to finance and investment issues including capital budgeting and working capital management.
3. Demonstrate skill proficiency in appropriate technologies, written reports, and formal presentations with respect to finance and investments.
4. Ability to identify and discriminate between different financial markets, institutions and products and determine appropriateness to market participants and short-term and long-term financial management and investment objectives.

REQUIRED COURSES	Units
BA 34 Fundamentals of Investing .....	3
BA 35 Financial Management for Entrepreneurs and Small Business.....	3

## HUMAN RELATIONS AND COMMUNICATIONS

– MAJOR #2510

A step incentive certificate signifying proficiency in workplace human relations and communications.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Demonstrate effective communication skills through speaking, writing, and other common forms of business communication including the appropriate use of communication devices.
2. Describe how to make personal responsibility for professional and effective workplace relationships.
3. Describe and identify goal-setting theories and its influence on workplace performance.

REQUIRED COURSES		Units
BA/BT 5	Workplace Communication .....	3
BA 33	Human Relations in the Workplace.....	3

## HUMAN RESOURCE MANAGEMENT AND HUMAN RELATIONS – MAJOR #2520

A step incentive certificate signifying proficiency in entry-level human resource management skills.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Demonstrate the appropriate application of State and Federal HR laws to business situations.
2. Demonstrate the appropriate application for each of the primary HR functions.
3. Demonstrate effective communication skills through speaking, writing, and other common forms of business communication including the appropriate use of communication devices.
4. Demonstrate how to take personal responsibility for professional and effective workplace relationships.
5. Demonstrate an understanding of motivation and goal-setting theories and its influence on workplace performance.

REQUIRED COURSES		Units
BA 31	Human Resources Management.....	3
BA 33	Human Relations in the Workplace.....	3

## MANAGEMENT AND SUPERVISION

– MAJOR #2182

A step incentive certificate signifying proficiency in basic knowledge and skills required for a general management position. Awarded for the successful completion of courses listed with a minimum grade of “C” in each required course.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Identify key functions, skills, and competitive goals of effective managers.
2. Demonstrate the appropriate application of State and Federal HR laws to business situations.
3. Define and describe common operational issues and appropriate supervisory responses to these issues.
4. Define and describe strategic and tactical issues and appropriate managerial responses to these issues.
5. Take personal responsibility for professional and effective workplace relationships.
6. Demonstrate effective communication skills through speaking, writing, and other common forms of business communication.

REQUIRED COURSES		Units
BA 40	Supervision and Leadership.....	3
BA 43	Principles of Management.....	3

## PERSONAL FINANCE AND INVESTMENTS

– MAJOR #2032

A step incentive demonstrating a basic understanding of personal finance and investments.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Ability to create and analyze the four basic financial statements and budgets and recognize and evaluate opportunity and risk.
2. Ability to identify and discriminate between different financial markets, institutions and products and determine appropriateness to market.
3. Ability to describe the impact of exogenous factor inputs such as monetary and fiscal policy and changes in interest rates on financial management.
4. Ability to describe the basic principles of credit, insurance, large asset investments, saving and investing for the future, career development strategies, goal setting with respect to achievement of personal and lifelong financial objectives and business objectives.

REQUIRED COURSES		Units
BA 30	Personal Finance.....	3
BA 34	Fundamentals of Investing .....	3

**PROFESSIONAL AND CIVIC BEHAVIORS**

– MAJOR #2036

Professional workplace behaviors/career preparation integrating life skills, mindsets, and work skills resulting in productive workplace relationships and civic engagement.

**CERTIFICATE***Student Learning Outcomes:*

1. Demonstrate an understanding and application of productive workplace relationships and the importance of civic engagement.
2. Complete career and civic plans which reflect key concepts related to productive workplace relationships and civic engagement.

REQUIRED COURSES		Units
BA 101	Basic Professional and Civic Behaviors .....	0.25
BA 102	Intermediate Professional and Civic Behaviors .....	0.25
BA 103	Advanced Professional and Civic Behaviors .....	0.25
BA 104	Applied Professional and Civic Behaviors .....	0.25

**REAL ESTATE COURSE QUALIFICATION**

– MAJOR #2192

Successful completion of these three courses qualify an individual to sit for the Real Estate Salesperson examination and meets the requirements of the Department of Consumer Affairs - Bureau of Real Estate.

**CERTIFICATE***Student Learning Outcomes:*

1. Understand and apply the Realtor Code of Ethics and Regulations of the Department of Real Estate.
2. Explain how to locate appropriate financing for buyers of real property; and how to work with appraisers, in addition to understanding basic accounting, financial statements and transactions and interpreting financial statements.
3. Understand key components of commercial transactions, contracts, purchase agreements and laws that relate to those transactions.

REQUIRED COURSES		Units
RE 40	Real Estate Principles .....	3
RE 41	Real Estate Practice .....	3
ACCTG 4A	Financial Accounting, <i>or</i>	
BA 18	Business and the Legal Environment .....	4

**SMALL BUSINESS MANAGEMENT – MAJOR #2030**

Certificate designed to prepare students to successfully launch and operate a small business.

**CERTIFICATE***Student Learning Outcomes:*

1. Appropriate application of management theory relating to the functions of planning, organizing, leading and controlling.
2. Create and analyze the four basic financial statements and budgets and recognize and evaluate opportunity and risk.
3. Assist in the formulation and implementation of a business strategy.
4. Demonstrate soft skills required for workplace success as applied to customer service, teambuilding, conflict management, time management, communication, and professional behavior.
5. Demonstrate basic workplace written, verbal, and non-verbal communication skills required for the workplace, including the proper use of appropriate technologies, written reports, and formal presentations.
6. Manage new venture launch and continuing entrepreneurial operations.

REQUIRED COURSES		Units
BA 38	Operation of the Small Business .....	3
BA 51	Business Planning and New Venture Launch .....	1.5

**BUSINESS & TECHNOLOGY PROGRAM****OFFICE PROFESSIONAL – EXECUTIVE ASSISTANT EMPHASIS – FORMERLY OFFICE PROFESSIONAL II AND ADMINISTRATIVE ASSISTANT EMPHASIS – MAJOR #2215**

Training is designed to provide advanced skills for employment in a variety of professional environments. Additional general education units are required for the AS degree. Students may earn more than one certificate in addition to the Associate in Science degree and are required to earn grades of “C” or better in all courses.

**ASSOCIATE IN SCIENCE***Student Learning Outcomes:*

1. Use technology applications and software effectively in a professional setting.
2. Proofread documents and correct errors in punctuation, grammar, capitalization, number expression, and spelling.
3. Type at least 40 gross words per minute with 97% accuracy.
4. Achieve a satisfactory evaluation in a work experience setting.

REQUIRED CORE COURSES		Units
BT 1	Computer Document Processing I.....	3
BT 9	Computer Applications I.....	4
BT 19	Work Experience (Cooperative), Occupational.....	2
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English.....	3
EMPHASIS AREA COURSES		Units
BT 2	Computer Document Processing II.....	3
BT 6	Records Management.....	3
BT 10	Computer Applications II.....	4
BT 33	Social Media and Emerging Technologies in the Workplace.....	3
BT 122	Typing Skillbuilding .....	0.5
Total		28.5

## RECOMMENDED SEQUENCE

First Semester		Units
BT 1	Computer Document Processing I.....	3
BT 9	Computer Applications I.....	4
BT 33	Social Media and Emerging Technologies in the Workplace .....	3
BT 112	Business English.....	3
Second Semester		Units
BT 2	Computer Document Processing II.....	3
BT 6	Records Management.....	3
BT 10	Computer Applications II.....	4
BT 19	Work Experience (Cooperative), Occupational.....	2
BT 23	Job Search and Workplace Skills .....	3
BT 122	Typing Skillbuilding .....	0.5
Total		28.5

### OFFICE PROFESSIONAL – EXECUTIVE ASSISTANT EMPHASIS – FORMERLY OFFICE PROFESSIONAL II AND ADMINISTRATIVE ASSISTANT EMPHASIS – MAJOR #2215

Training is designed to provide advanced skills for employment in a variety of professional office environments. Students may earn more than one certificate and are required to earn grades of “C” or better in all courses.

## CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Use technology applications and software in a professional setting.
2. Proofread documents and correct errors in punctuation, grammar, capitalization, number expression, and spelling.
3. Type at least 40 gross words per minute with 97% accuracy.
4. Achieve a satisfactory evaluation in a work experience setting.

REQUIRED CORE COURSES		Units
BT 1	Computer Document Processing I.....	3
BT 9	Computer Applications I.....	4
BT 19	Work Experience (Cooperative), Occupational.....	2
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English.....	3
BT 115	Refresher Math.....	3
EMPHASIS AREA COURSES		Units
BT 2	Computer Document Processing II.....	3
BT 6	Records Management.....	3
BT 10	Computer Applications II.....	4
BT 33	Social Media and Emerging Technologies in the Workplace .....	3
BT 122	Typing Skillbuilding .....	0.5
Total		31.5

## OFFICE PROFESSIONAL - LEGAL OFFICE

## EMPHASIS – FORMERLY LEGAL ADMINISTRATIVE

## ASSISTANT EMPHASIS AND LEGAL OFFICE PROFESSIONAL – MAJOR #2104

Training is designed to prepare students for employment in a legal office environment. Students may earn more than one certificate in addition to the Associate in Science degree and are required to earn grades of “C” or better in the Office Professional I and emphasis courses.

## ASSOCIATE IN SCIENCE

*Student Learning Outcomes:*

1. Use technology applications, office equipment, and software effectively in a professional setting.
2. Describe the basic organizational structure, operational principles and administrative processes associated with the law office environment.
3. Achieve a satisfactory evaluation in a work experience setting.

REQUIRED CORE COURSES		Units
BT 1	Computer Document Processing I.....	3
BT 9	Computer Applications I.....	4
BT 19	Work Experience (Cooperative), Occupational.....	2
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English.....	3
REQUIRED EMPHASIS COURSES		Units
BT 140/PLEGAL 156	Legal Document Processing.....	3
PLEGAL 7	Law Office Administration and Ethics .....	3
PLEGAL 14	Law Office Computing.....	3
Total		24

**OFFICE PROFESSIONAL – LEGAL OFFICE EMPHASIS – FORMERLY LEGAL ADMINISTRATIVE ASSISTANT EMPHASIS AND LEGAL OFFICE PROFESSIONAL – MAJOR #2104**

Training is designed to prepare students for employment in a legal office environment. Students may earn more than one certificate and are required to earn grades of “C” or better in all courses.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Use technology applications, office equipment, and software effectively in a professional setting.
2. Describe the basic organizational structure, operational principles and administrative processes associated with the law office environment.
3. Achieve a satisfactory evaluation in a work experience setting.

REQUIRED CORE COURSES		Units
BT 1	Computer Document Processing I.....	3
BT 9	Computer Applications I.....	4
BT 19	Work Experience (Cooperative), Occupational.....	2
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English.....	3
BT 115	Refresher Math.....	3
REQUIRED EMPHASIS COURSES		Units
BT 140/PLEGAL 156	Legal Document Processing.....	3
PLEGAL 7	Law Office Administration and Ethics .....	3
PLEGAL 14	Law Office Computing.....	3
Total		27

**OFFICE PROFESSIONAL – MEDICAL OFFICE EMPHASIS - FORMERLY MEDICAL OFFICE PROFESSIONAL AND MEDICAL ADMINISTRATIVE ASSISTANT EMPHASIS - MAJOR #2383**

Training is designed to prepare students for employment in a medical office environment. Students may earn more than one certificate in addition to the Associate in Science degree and are required to earn grades of “C” or better in the Office Professional I and emphasis courses.

**ASSOCIATE IN SCIENCE**

*Student Learning Outcomes:*

1. Use technology applications, office equipment, and software effectively in a professional setting.
2. Perform medical administrative duties.
3. Achieve a satisfactory evaluation in a work experience setting.

REQUIRED CORE COURSES		Units
BT 1	Computer Document Processing I.....	3
BT 9	Computer Applications I.....	4
BT 19	Work Experience (Cooperative), Occupational.....	2
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English.....	3
REQUIRED EMPHASIS COURSES		Units
BT 143	Medical Office Vocabulary.....	1
BT 144	Medical Administrative Assistant .....	2.5
BT 147	Medical Management Software .....	2
BT 148	Medical Insurance and Billing Concepts .....	2.5
Total		23

**OFFICE PROFESSIONAL – MEDICAL OFFICE EMPHASIS - FORMERLY MEDICAL OFFICE PROFESSIONAL AND MEDICAL ADMINISTRATIVE ASSISTANT EMPHASIS - MAJOR #2383**

Training is designed to prepare students for employment in a medical office environment. Students may earn more than one certificate and are required to earn grades of “C” or better all courses.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Use technology applications, office equipment, and software effectively in a professional setting.
2. Perform medical administrative duties.
3. Achieve a satisfactory evaluation in a work experience setting.

REQUIRED CORE COURSES		Units
BT 1	Computer Document Processing I.....	3
BT 9	Computer Applications I.....	4
BT 19	Work Experience (Cooperative), Occupational.....	2
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English.....	3
BT 115	Refresher Math.....	3
REQUIRED EMPHASIS COURSES		Units
BT 143	Medical Office Vocabulary.....	1
BT 144	Medical Administrative Assistant .....	2.5
BT 147	Medical Management Software .....	2
BT 148	Medical Insurance and Billing Concepts .....	2.5
Total		26

## OFFICE PROFESSIONAL – ONE-PERSON OFFICE EMPHASIS - MAJOR #2064

Training is designed to provide advanced skills for entrepreneurs or individuals interested in running a one-person office. Additional general education units are required for the AS degree. Students may earn more than one certificate along with the Associate in Science degree and are required to earn grades of "C" or better in all courses.

### ASSOCIATE IN SCIENCE

#### *Student Learning Outcomes:*

1. Use technology applications, office equipment, and software effectively in a professional setting.
2. Demonstrate key skills in order to effectively meet customer needs and provide outstanding customer service.
3. Apply emerging technologies to business and administrative processes to maximize efficiency and effectiveness.

REQUIRED CORE COURSES		Units
BT 1	Computer Document Processing I.....	3
BT 9	Computer Applications I.....	4
BT 19	Work Experience (Cooperative), Occupational.....	2
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English.....	3

REQUIRED EMPHASIS COURSES		Units
BT 5	Workplace Communication .....	3
BT 31	21st Century Workforce Skills.....	1.5
BT 33	Social Media and Emerging Technologies in the Workplace .....	3
BT 131	Applied Accounting.....	3.5
BT 132	Customer Service in the One-Person Office .....	3
Total		29

## OFFICE PROFESSIONAL – ONE-PERSON OFFICE EMPHASIS - MAJOR #2064

Training is designed to provide advanced skills for entrepreneurs or individuals interested in running a one-person office. Students may earn more than one certificate in addition to the Associate in Science degree and are required to earn grades of "C" or better in all courses.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Use technology applications, office equipment, and software effectively in a professional setting.
2. Demonstrate key skills in order to effectively meet customer needs and provide outstanding customer service.
3. Apply emerging technologies to business and administrative processes to maximize efficiency and effectiveness.

REQUIRED CORE COURSES		Units
BT 1	Computer Document Processing I.....	3
BT 9	Computer Applications I.....	4
BT 19	Work Experience (Cooperative), Occupational.....	2
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English.....	3
BT 115	Refresher Math.....	3

REQUIRED EMPHASIS COURSES		Units
BT 5	Workplace Communication .....	3
BT 31	21st Century Workforce Skills.....	1.5
BT 33	Social Media and Emerging Technologies in the Workplace .....	3
BT 131	Applied Accounting.....	3.5
BT 132	Customer Service in the One-Person Office .....	3
Total		32

## BOOKKEEPING FUNDAMENTALS - MAJOR #2015

Skills for spreadsheet management, bookkeeping, and accounting tasks, applicable to both the workplace and to more advanced courses in the subject matter.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Create a worksheet in Excel using correct formatting, formulas, and functions, with the ability to create graphs.
2. Journalize and post a variety of typical business transactions, including payroll records and banking documents.

REQUIRED COURSES		Units
BT 24	Beginning Excel .....	1
BT 131	Applied Accounting.....	3.5
Total		4.5

## BUSINESS OFFICE ENGLISH - MAJOR #2372

This certificate is designed to improve English grammar, speaking, writing, and presentation skills needed in the office.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Use correct English grammar to communicate effectively when speaking, writing, and presenting in business settings.
2. Identify problems and revise business communication to improve meaning, tone, and clarity.

REQUIRED COURSES		Units
BT 5	Workplace Communication .....	3
BT 112	Business English.....	3
Total		6



## BUSINESS OFFICE MATH FUNDAMENTALS

- MAJOR #2328

This certificate is designed to improve computational and critical thinking skills needed in the office.

### CERTIFICATE

*Student Learning Outcome:*

1. Apply fundamental mathematics computation skills to solve business-related problems with or without a ten-key calculator.

REQUIRED COURSES		Units
BT 104	Ten-Key Calculations .....	2
BT 115	Refresher Math.....	3
Total		5

## COMPUTER APPLICATIONS SOFTWARE

- MAJOR #2202

This certificate option prepares students for computer applications certification. Students are required to earn grades of "C" or better.

### CERTIFICATE

*Student Learning Outcome:*

1. Demonstrate proficiency in office applications software.

COURSES		Units
BT 9	Computer Applications I.....	4
BT 10	Computer Applications II.....	4
BT 33	Social Media and Emerging Technologies in the Workplace .....	3
BT 106	Computer Keyboarding .....	1.5
Total		12.5

## MEDICAL OFFICE ASSISTANT

- FORMERLY MEDICAL BILLING ASSISTANT - MAJOR #2243

This certificate option is designed to meet the training needs for qualified entry level employment in the medical office setting. Students are required to earn grades of "C" or better in all courses.

### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Perform basic administrative duties in a medical office using appropriate technology.
2. Support billing and collections by applying knowledge of coding and procedures and insurance programs.
3. Communicate effectively and according to legal guidelines in a professional health care setting.

### REQUIRED COURSES

REQUIRED COURSES		Units
BT 120	Resume/Interview.....	1
BT 143	Medical Office Vocabulary.....	1
BT 144	Medical Administrative Assistant .....	2.5
BT 147	Medical Management Software .....	2
BT 148	Medical Insurance & Billing Concepts .....	2.5
Total		9

## MICROSOFT OFFICE FOUNDATIONS - MAJOR #2325

This certificate will allow students to gain fundamental skills needed to work in an office setting; geared toward students returning to school with limited skills. The certificate could be completed in one semester.

### CERTIFICATE

*Student Learning Outcome:*

1. Given a business scenario, select and use appropriate application programs(s) from Microsoft Office to create a solution addressing the scenario.

COURSES		Units
BT 24	Beginning Excel, <i>or</i>	
BT 9	Computer Applications I .....	1-4
BT 28	Microsoft Word I .....	1.5
BT 126	Automated Business Records, <i>or</i>	
BT 9	Computer Applications I .....	1-4
BT 127	Microsoft Outlook and E-Mail .....	1
BT 130	Beginning PowerPoint, <i>or</i>	
BT 9	Computer Applications I .....	1-4
Total		5.5-8.5

## MICROSOFT WORD - MAJOR #2323

This option is designed to assist students pursuing Microsoft Word certification. Students are required to earn grades of "C" or better in all courses.

### CERTIFICATE

*Student Learning Outcome:*

1. Demonstrate the advanced features of Microsoft Word.

COURSES		Units
BT 28	Microsoft Word I .....	1.5
BT 29	Microsoft Word II .....	1.5
Total		3

**ONE-PERSON OFFICE – MAJOR #2063**

The One-Person Office certificate allows students to gain fundamental skills needed for entrepreneurs or individuals interested in running a small business.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Demonstrate key skills in order to effectively meet customer needs and provide outstanding customer service.
2. Journalize and post a variety of typical business transactions.
3. Apply emerging technologies to business and administrative processes to maximize efficiency and effectiveness.

Courses	Hours
BT 5 Workplace Communication .....	3
BT 31 21st Century Workforce Skills .....	1.5
BT 33 Social Media and Emerging Technologies in the Workplace .....	3
BT 131 Applied Accounting .....	3.5
BT 132 Customer Service in the One-Person Office.....	3
Total	14

**BASIC CLERICAL SKILLS – MAJOR #2471**

Basic Clerical Skills is a non-credit program designed to develop and improve skills for those desiring office employment. Emphasis on keyboarding, filing, 10-key, spelling and vocabulary, telephone techniques and resume building. Students are required to perform at 70 percent or better for successful completion of the program. When all courses (A, B, C, D, and E) are completed successfully, a certificate is awarded.

**CERTIFICATE OF COMPLETION***Student Learning Outcomes:*

1. Key straight copy of three minutes at a minimum of 20 gross words a minute with a minimum of 96% accuracy.
2. Demonstrate proper indexing of the names of individuals and business organizations to demonstrate skills of filing.
3. Analyze business-oriented material to identify spelling and word-choice errors.
4. Use a ten-key calculator accurately in a timely manner.
5. Produce an effective resume and cover letter.

COURSES	Hours
BT 375A Introduction to Keyboarding .....	72
BT 375B Introduction to Filing.....	28
BT 375C Basic Office Communications .....	80
BT 375D Math Review and Ten-Key Calculator .....	59
BT 375E Job Search Documents .....	59
Total	298

**CLERICAL TRAINING – MAJOR #247V**

This option will develop and improve skills for those desiring office employment and leads to a certificate. Emphasis on records management, keyboarding, grammar, ten-key, MS Word, MS Excel, human relations, telephone techniques, resume/interview, and computer literacy. Students are required to perform at 70 percent or better for successful completion of the program.

**CERTIFICATE OF COMPLETION***Student Learning Outcomes:*

1. Use technology effectively in an office environment.
2. Type a minimum of 30 words per minute.
3. Key a minimum of 110 correct strokes per minute on a ten-key calculator.

COURSES	Hours
BT 370A Office Assistant Applications .....	300
BT 370B Office Assistant Applications .....	300
Total	600

**KEYBOARDING SKILLS - MAJOR #2472**

Developing keyboarding speed and accuracy, and typing by touch to produce basic correspondence using word processing software.

**CERTIFICATE OF COMPLETION***Student Learning Outcome:*

1. Create, save, open and edit a word processed document.
2. Use the touch method to key letters, numbers, and figures on a computer keyboard.

COURSES	Hours
BT 306 Computer Keyboarding .....	27
BT 307 Introduction to Word Processing.....	27
Total	54

## CHEMISTRY – MAJOR #6320

Chemistry is often called the “central science” since it draws from mathematics and physics and forms a necessary background for quality control programs in industry and agriculture, and criminal evidence analysis in forensics. To earn the Certificate in Chemistry, students must complete a minimum of 39-45 required semester units of program required classes. Students must maintain a minimum 2.0 GPA, including grades of C or higher in the courses taken to fulfill the certificate. This is not a transfer degree program. Students should consult with a counselor when planning to complete the certificate for more information. After earning a chemistry certificate, students will have the knowledge and skills required to enter the workforce as a chemical technician. These will include laboratory skills (bench-top and instrument operation), computational skills, and communication skills. There are currently no other similar programs within the State Center Community College District. There are not any enrollment limitations. The prerequisite courses vary for each individual class. For the first semester, these include MATH 103, and eligibility for CHEM 1A and ENGL 1A.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. As a result of the program, students will demonstrate laboratory skills to be successful in subsequent courses and/or on the job.
2. As a result of the program, students will master concept and content to be successful in subsequent courses and/or on the job.
3. As a result of the program, students will master computational skills to be successful in subsequent courses and/or on the job.
4. As a result of the program, students will effectively communicate the results of chemistry laboratory investigations.

REQUIRED COURSES		Units
CHEM 1A	General Chemistry.....	5
CHEM 1B	General Chemistry and Qualitative Analysis.....	5
CHEM 8A	Elementary Organic Chemistry, <i>or</i>	
CHEM 28A	Organic Chemistry I.....	3
CHEM 18L	Elementary Organic Chemistry Lab.....	2
CHEM 20	Practical Quantitative Analysis.....	5
CHEM 100I	Chemical Laboratory Internship.....	2-6
ENGL 1A	Reading and Composition.....	4
MATH 11	Elementary Statistics.....	4
	Total	30-34

ELECTIVES: Select a minimum of 3 courses		Units
BA 5	Workplace Communication, <i>or</i>	
BA 33	Human Relations in the Workplace.....	3
BA 18	Business and the Legal Environment.....	4
BIOL 6	Principles of Botany.....	5
BIOL 7	Field Biology, <i>or</i>	
BIOL 46	Elementary Horticulture.....	4-5
BT 6	Records Management.....	3
BT 23	Job Search and Workplace Skills.....	3

COMM 1	Introduction to Public Speaking, <i>or</i>	
COMM 8	Group Communication, <i>or</i>	
COMM 12	Fundamentals of Oral Interpretation.....	3
COMM 2	Interpersonal Communication.....	3
CRIM 3	Legal Aspects of Evidence.....	3
GEOL 4	Geology of California.....	3

## CERTIFICATE IN CHEMISTRY - MAJOR #6320

Chemistry is often called the “central science” since it draws from mathematics and physics and forms a necessary background for quality control programs in industry and agriculture, and criminal evidence analysis in forensics. After earning a chemistry certificate, students will have the knowledge and skills required to enter the workforce as a chemical technician. These will include laboratory skills (bench-top and instrument operation), computational skills, and communication skills.

### CERTIFICATE

#### *Student Learning Outcome:*

1. As a result of the program, students will demonstrate laboratory skills to be successful in subsequent courses and/or on the job.
2. As a result of the program, students will master concept and content to be successful in subsequent courses and/or on the job.
3. As a result of the program, students will master computational skills to be successful in subsequent courses and/or on the job..
4. As a result of the program, students will effectively communicate the results of chemistry laboratory investigations.

REQUIRED COURSES:		Units
CHEM 18L	Elementary Organic Chemistry Lab.....	2
CHEM 20	Practical Quantitative Analysis.....	5
CHEM 100I	Chemical Laboratory Internship.....	2

### RECOMMENDED SEQUENCE

First Term		Units
CHEM 18L	Elementary Organic Chemistry Lab.....	2
Second Term		Units
CHEM 20	Practical Quantitative Analysis.....	5
CHEM 100I	Chemical Laboratory Internship.....	2

## CHICANO-LATINO STUDIES

### - FORMERLY CULTURAL STUDIES, LA RAZA – MAJOR #7661

This program is designed to focus on Mexican-American history, heritage, and culture. Chicano-Latino Studies offers a broad interdisciplinary approach to the study of society and culture. The curriculum provides students with the strong academic background helpful to those planning careers in law, health, education, social work, business, and industry. Chicano-Latino Studies provides the knowledge and skills necessary to help students understand, communicate, and appreciate the rich cultural diversity in American society through the study of the Mexican-American and broader Latino community.

ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Students will demonstrate critical thinking and problem solving skills across disciplines as they relate to the Chicano-Latino community.
2. Students will demonstrate competency in oral, written, and research skills.
3. Students will demonstrate an understanding of, and an ability to critically analyze and interpret, cultural expressions of Chicanos and Latinos.
4. Students will acquire a comprehensive knowledge and understanding of Chicano-Latino history, culture, arts, and socio-political issues.
5. Students will demonstrate a commitment to active citizenship, and develop leadership skills and an understanding of social justice principles and their application in order to promote positive social change in the Chicano-Latino community and the broader society.

REQUIRED CORE COURSES		Units
CLS 11	Introduction to Chicano-Latino Studies.....	3
CLS 12	Mexican American History .....	3
CLS 21	Chicano Literature.....	3
Total		9

COURSE OPTIONS: Select 11 Units Units

AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society.....	3
CLS 13	Politics and the Chicano-Latino Community.....	3
CLS/SOC 14	Sociology of the Mexican American Community..	3
CLS 17A	Beginning Mexican Folk Dance.....	3.5
CLS 18	Latin Jazz Ensemble .....	2
CLS 20	Chicano Art .....	3
CLS 22	Art of the Ancient Americas .....	3
CLS/WSTS 24	La Chicana and Latina.....	3
CLS 27B	Advanced Mexican Folk Dance.....	3.5
CLS/ANTHRO 28	Ancient Mexico .....	3
CLS/HIST 29	History of Mexico, Colonial to Contemporary Period .....	3
CLS 30	Migration and the Family: Social and Psychological Perspectives.....	3
CLS 33	Community Involvement: Service Learning.....	3

Recommended Electives: Students are encouraged to include Spanish classes as part of their college program.

*Note: An associate in arts degree will be awarded to the candidate who successfully completes a total of 60 units. The 60 units must include associate degree requirements and 20 units of course work as listed above. Associate degree requirements are listed in the Graduation Requirements section of this catalog. General Education requirements for transfer certification are listed in the Transfer Requirements section of this catalog.*

SOCIAL JUSTICE STUDIES, CHICANO STUDIES FOR TRANSFER – MAJOR #7662

Social Justice Studies was created as an “Area of Emphasis” Associate Degree for Transfer (ADT). This ADT includes Programs in Cultural or Ethnic Studies and Women’s Studies, and is designed to give students a broad background in the histories of various racial and ethnic groups, and the contemporary challenges faced by these groups in our society. Social Justice is the basic principle that all members of a society are entitled to equal rights and opportunities, and Social Justice Studies seeks to examine existing inequities, particularly as they relate to race, ethnicity, gender, and sexuality. The Social Justice Studies ADT in Chicano Studies is designed to transfer into the CSU system, and can be used as the foundation for a Bachelor’s Degree in the following areas: American Studies, Chicana and Chicano or Mexican American Studies, and Comparative Ethnic Studies. To earn the Associate in Arts in Social Justice for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Demonstrate academic preparedness for transfer to a four-year college.
2. Examine and appraise the intersections of race, class, gender, religion and other cultural indicators in issues of social justice in the United States.
3. Compare and contrast the primary goals of social justice movements of the 20th century and evaluate correlations to contemporary social justice movements.
4. Students will demonstrate critical thinking and problem solving skills across disciplines as they relate to the Chicano-Latino community.
5. Students will acquire a comprehensive knowledge and understanding of Chicano-Latino history, culture, arts, and socio-political issues.
6. Students will demonstrate a commitment to active citizenship, and develop leadership skills and an understanding of social justice principles and their application in order to promote positive social change in the Chicano-Latino community and the broader society.

REQUIRED CORE COURSES		Units
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society .....	3
CLS 12	Mexican American History .....	3
WSTS 10	Changing Roles of Women.....	3

Select three (3) courses from at least two of the following areas:

Area 1: History or Government	Units
CLS 29 History Of Mexico, Colonial to Contemporary Period .....	3
Area 2: Arts and Humanities	Units
CLS 20 Chicano Art .....	3
CLS 21 Chicano Literature .....	3
Area 3: Social Science	Units
CLS 11 Introduction to Chicano-Latino Studies.....	3
CLS 30 Migration and the Family: Social and Psychological Perspectives.....	3
Area 4: Major Preparation	Units
CLS 13 Politics and the Chicano-Latino Community.....	3
CLS 14 Sociology of the Mexican American Community..	3
Total	18

## CHILD DEVELOPMENT

### CHILD DEVELOPMENT - MAJOR #5615

The Associate in Science degree in Child Development is designed to prepare students to work with young children in a variety of early care and education settings. Completion of the requirements for the Associate in Science degree will fulfill the requirements to obtain the California Child Development Permit at the Teacher level which qualifies the student to work in a State of California funded child development center or preschool.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education.
2. Design, implement and evaluate environments and activities that support positive developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the early care and education profession.

REQUIRED COURSES		Units
CHDEV 1	Principles and Practices of Teaching Young Children .....	3
CHDEV 3	Introduction to Curriculum.....	3
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education .....	3
CHDEV 15	Diversity and Culture in Early Childhood Education Programs.....	3
CHDEV 20	Observation and Assessment .....	3
CHDEV 30	Child, Family and Community.....	3
CHDEV 37A	Early Childhood Practicum.....	3
CHDEV 39	Child Growth and Development.....	3
Course Options - Group A: Select 3 units		Units
CHDEV 16	Introduction to Early Intervention .....	3
CHDEV 17A	Infant and Toddler Practicum.....	3
CHDEV 37B	Advanced Practicum in Early Childhood Education .....	3
Course Options - Group B - Select 3 Units		
(Courses taken to meet Section A above cannot be used to fulfill Section B)		
		Units
CHDEV 5	Parent Education .....	3
CHDEV 9	Music, Movement and Drama for Young Children .....	3
CHDEV 10	Science and Math for Young Children.....	3
CHDEV 11	The Young Child With Special Needs .....	3
CHDEV 12	Child Abuse .....	3
CHDEV 16	Introduction to Early Intervention .....	3
CHDEV 17A	Infant and Toddler Practicum.....	3
CHDEV 17B	Advanced Infant and Toddler Development.....	3
CHDEV 37B	Advanced Practicum in Early Childhood Education .....	3
CHDEV 38	Lifespan Development.....	3
CHDEV 40A	Administration I: Programs in Early Childhood Education.....	3
CHDEV 40B	Administration II: Personnel and Leadership in Early Childhood Education.....	3
CHDEV 43	Children's Literature .....	3
CHDEV 45	Adult Supervision and Mentoring in Early Care and Education .....	3
CHDEV 47	Emergent Literacy.....	3
CHDEV 48	Supporting Children with Challenging Behaviors .....	3
CHDEV 53	Family Child Care Programs .....	3
CHDEV 60	Introduction to Child Welfare .....	3
Total		30

*Note: An associate in science degree will be awarded on the successful completion of 60 units, including General Education requirements.*

## EARLY CHILDHOOD EDUCATION – FORMERLY CHILD DEVELOPMENT – MAJOR #5616

The Certificate of Achievement in Early Childhood Education is designed to prepare students to work with young children in a variety of early care and education settings. Completion of the Certificate of Achievement fulfills the child development coursework requirement for the California Child Development Permit at the Teacher level.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education.
2. Design, implement and evaluate environments and activities that support positive developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the early care and education profession.

REQUIRED CORE COURSES		Units
CHDEV 1	Principles and Practices of Teaching Young Children .....	3
CHDEV 3	Introduction to Curriculum.....	3
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education.....	3
CHDEV 15	Diversity and Culture in Early Childhood Education Programs.....	3
CHDEV 20	Observation and Assessment .....	3
CHDEV 30	Child, Family and Community .....	3
CHDEV 37A	Early Childhood Practicum.....	3
CHDEV 39	Child Growth and Development.....	3
Total		24

## EARLY CHILDHOOD EDUCATION FOR TRANSFER – MAJOR #5605

Majoring in Child Development prepares students for jobs in a variety of early care and education settings as well as in related fields working with children and families. The associate in science in Early Childhood Education for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the associate in science transfer degree, students must complete 60 semester or 90 quarter units that are eligible for transfer to the CSU including either IGETC or CSU GE Breadth and at least 18 units, as defined by the community college, in a major or area of emphasis. Local graduation

requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.
2. Design, implement and evaluate environments and activities that support positive developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the early care and education profession.

REQUIRED COURSES		Units
CHDEV 1	Principles and Practices of Teaching Young Children .....	3
CHDEV 3	Introduction to Curriculum.....	3
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education .....	3
CHDEV 15	Diversity and Culture in Early Childhood Education Programs.....	3
CHDEV 20	Observation and Assessment .....	3
CHDEV 30	Child, Family and Community.....	3
CHDEV 37A	Early Childhood Practicum.....	3
CHDEV 39	Child Growth and Development.....	3
Total		24

## CHILD DEVELOPMENT – FORMERLY ASSOCIATE TEACHER – MAJOR #5618

The Certificate of Achievement in Child Development is designed to prepare students for entry-level positions in a variety of early care and education settings. Completion of the Certificate of Achievement fulfills the coursework requirements for the California Child Development Permit at the Associate Teacher level.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education.
2. Design, implement and evaluate environments and activities that support positive developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.

REQUIRED COURSES		Units
CHDEV 1	Principles and Practices of Teaching Young Children .....	3
CHDEV 3	Introduction to Curriculum.....	3
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education.....	3
CHDEV 30	Child, Family and Community .....	3
CHDEV 39	Child Growth and Development.....	3
Total		15

**CHILD WELFARE – FORMERLY FOSTER CARE**  
 – MAJOR #5581

The Certificate of Achievement in Child Welfare is designed to prepare students to work with children and families who are part of the child welfare system. Students will gain a basic understanding of the child welfare system and various community resources. They will also learn basic interventions and techniques to support children and families receiving services through the child welfare system.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eighteen who are in out-of-home placement due to issues of neglect and/or abuse.
2. Apply effective guidance and interaction strategies that support children in out-of-home placements in social learning, identity and self-confidence.
3. Develop strategies that support relationships between children and their birth families, foster families, and child welfare staff.

REQUIRED COURSES		Units
CHDEV 12	Child Abuse .....	3
CHDEV 30	Child, Family and Community.....	3
CHDEV 39	Child Growth and Development.....	3
CHDEV/HS 60	Introduction to Child Welfare .....	3
HS 20	Introduction to Social Welfare .....	3
Total		15

**EARLY INTERVENTION – FORMERLY EARLY INTERVENTION ASSISTANT - MAJOR #5621**

The Associate in Science degree in Early Intervention is designed to prepare students to work with infants, toddlers and young children with disabilities and other special needs in early intervention settings and inclusive early care and education settings. A student who completes the certificate is qualified to work at the Early Intervention Assistant I level of the California Early Start Personnel Model.

**ASSOCIATE IN SCIENCE DEGREE**

*Student Learning Outcomes:*

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education.
2. Design, implement and evaluate environments and activities that support positive developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the early care and education profession.
6. Develop and apply strategies that provide support and early intervention to infants, 0-3, who have disabilities and other special needs and their families, in the natural environment.

REQUIRED COURSES		Units
CHDEV 3	Introduction to Curriculum.....	3
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education.....	3
CHDEV 11	The Young Child With Special Needs .....	3
CHDEV 15	Diversity and Culture in Early Childhood Education Programs.....	3
CHDEV 16	Introduction to Early Intervention .....	3
CHDEV 17A	Infant and Toddler Practicum.....	3
CHDEV 20	Observation and Assessment .....	3
CHDEV 30	Child, Family and Community .....	3
CHDEV 39	Child Growth and Development.....	3
CHDEV 48	Supporting Children with Challenging Behaviors .....	3
Total		30

**EARLY INTERVENTION ASSISTANT**

- MAJOR #5617

The Certificate of Achievement in Early Intervention Assistant is designed to prepare students to work with infants, toddlers and young children with disabilities and other special needs in early intervention settings and inclusive early care and education settings. A student who completes the certificate is qualified to work at the Early Intervention Assistant I level of the California Early Start Personnel Model.\*

Completing the Early Intervention Assistant Certificate plus the associate degree in Child Development qualifies a student to work at the Early Intervention Assistant II level of the California Early Start Personnel Model. The Early Intervention Assistant certificate units apply to the Associate Degree in Child Development and the Associate Degree for Transfer in ECE.\*\*

## CERTIFICATE OF ACHIEVEMENT

### *Student Learning Outcomes:*

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education.
2. Design, implement and evaluate environments and activities that support positive developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the early care and education profession.
6. Develop and apply strategies that provide support and early intervention to infants, 0-3, who have disabilities and other special needs and their families, in the natural environment.

REQUIRED COURSES		Units
CHDEV 3	Introduction to Curriculum.....	3
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education.....	3
CHDEV 11	The Young Child With Special Needs .....	3
CHDEV 15	Diversity and Culture in Early Childhood Education Programs.....	3
CHDEV 16	Introduction to Early Intervention .....	3
CHDEV 17A	Infant and Toddler Practicum.....	3
CHDEV 20	Observation and Assessment .....	3
CHDEV 30	Child, Family and Community .....	3
CHDEV 39	Child Growth and Development.....	3
CHDEV 48	Supporting Children with Challenging Behaviors .....	3
Total		30

*\*\* To qualify for the AS in Child Development in addition to the Early Intervention Assistant Certificate, complete CD 37A during second year.*

## FAMILY CHILD CARE – MAJOR #5571

The Certificate of Achievement in Family Care is designed to prepare students to become family child care providers, individuals who are licensed to care for children in their homes. Completion of the Certificate of Achievement fulfills the coursework requirements for the California Child Development Permit at the Associate Teacher level.

## CERTIFICATE OF ACHIEVEMENT

### *Student Learning Outcomes:*

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight.
2. Design, implement and evaluate environments and activities that support positive developmental play outcomes for young children.
3. Apply effective guidance and interaction strategies that support children's social and emotional development.

4. Apply ethical standards and professional behaviors that promote partnerships between programs, teachers, families and their communities.

REQUIRED COURSES		Units
CHDEV 3	Introduction to Curriculum.....	3
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education.....	3
CHDEV 30	Child, Family and Community .....	3
CHDEV 39	Child Growth and Development.....	3
CHDEV 53	Family Child Care Programs .....	3
Total		15

## INFANT AND TODDLER SPECIALIST – MAJOR #5619

The Certificate of Achievement in Infant and Toddler Specialist is designed to prepare students to work with children ages 0-3 in a variety of early care and education settings. Completion of the Certificate fulfills the child development coursework requirement for the California Child Development Permit at the Teacher level.

## CERTIFICATE OF ACHIEVEMENT

### *Student Learning Outcomes:*

1. Demonstrate knowledge of the needs, the characteristics and multiple influences on development of children birth to age three.
2. Design, implement and evaluate environments and activities that support positive developmental outcomes for young children.
3. Apply effective guidance and interaction strategies that support children's social and emotional development.
4. Apply ethical standards and professional behaviors that promote partnerships between programs, teachers, families and their communities.

REQUIRED COURSES		Units
CHDEV 1	Principles and Practices of Teaching Young Children .....	3
CHDEV 3	Introduction to Curriculum.....	3
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education.....	3
CHDEV 17A	Infant and Toddler Practicum.....	3
CHDEV 17B	Advanced Infant and Toddler Development.....	3
CHDEV 20	Observation and Assessment .....	3
CHDEV 30	Child, Family and Community.....	3
CHDEV 39	Child Growth and Development.....	3
Total		24

### Suggested sequence of courses:

First Semester	Units
CHDEV 1	Principles and Practices of Teaching Young Children .....
CHDEV 3	Introduction to Curriculum.....
CHDEV 6	Health, Safety and Nutrition in Early Childhood Education.....
CHDEV 39	Child Growth and Development.....



Second Semester		Units
CHDEV 17A	Infant and Toddler Practicum.....	3
CHDEV 20	Observation and Assessment .....	3

Third Semester		Units
CHDEV 17B	Advanced Infant and Toddler Development.....	3
CHDEV 30	Child, Family and Community.....	3

#### Qualifications to Teach in Early Care and Education Programs

##### *Privately Operated Center Based Programs*

Candidates may meet the California State Department of Social Service requirements by completion of 12 units of Child Development course work. The 12 units should include at least one course from each of the following:

1. Child Development/Psychology 39 (DSS\*1)
2. Child Development 30. (DSS\*2)
3. Child Development 3, 9, 10, 37A/B, 43 (DSS\*3)

Students who plan to work with infants must complete 12 units of child development including:

Child Development 17A, Infant/Development-Birth to Age 3 (DSS\*4)

Students who plan to work with children ages 6-12 years must complete 12 units including:

Students who wish to qualify as a Child Development Center Director must complete Child Development 40A (DSS\*6) in addition to the required 12 units.

*Note: The Child Development Department recommends that students take Child Development 6, Child Health and Safety, 3 units (DSS\*7). State law requires that an individual who has completed Child Care Health and Safety Training must be on the premises of a child development center at all times. Child Development 6 fulfills this requirement.*

The college transcript provides the documentation necessary for the individual's academic qualifications to teach in the privately operated center based program.

##### Publicly Funded Early Care and Education Centers

The California Commission on Teacher Credentials issues the Child Development Permit which is required for employment in children's centers and preschools that receive funding from the State of California. Each level of the Child Development Permit Matrix requires specific coursework to be completed with a grade of "C" or better and work experience in an early care and education program (birth to eight years.) Work experience requirements are noted at each level.

The applicant files a completed application verifying the following information to the California Commission of Teacher Credentials. Further information on the application process, including sources of funding to pay for the application fee, may be obtained from the Child Development Department.

##### *Associate Teacher level: 12 units*

(Experience: 50 days of 3 + hours per day within 2 years of application)

Child Development 39

Child Development 30

Child Development 3

plus 3 additional units of child development coursework

##### *Teacher level: 40 units*

(Experience: 175 days of 3 + hours per day within 4 years of application)

Completion of the Associate Teacher level (above) plus 12 additional units in Child Development and 16 units of general education including one course that meets FCC graduation requirements from each of the following areas:

English  
Math or Science  
Social Sciences  
Humanities

\* *Alternative qualifications: an AS degree in Child Development which includes one supervised field experience course. No work experience required*

##### *\*Master Teacher level:*

(Experience: 350 days of experience within 4 years, including 100 days of supervising adults)

Complete the Teacher level requirements listed above, plus:

Child Development 45

6 units of specialized course work in Child Development

(A list of Fresno City College specializations may be obtained from the Child Development Department)

##### *\*Site Supervisor level:*

(Experience: 350 days of 3 + hours per day within 4 years, including at least 100 days supervising adults)

An AA or AS degree with 24 units in child development, including the core courses, plus:

Child Development 40A, Child Development 40B, and Child Development 45

\* *Alternative qualifications for Master Teacher and Site Supervisor levels:*

BA degree or higher with 12 units of child development

Plus a supervised field work experience course (Child Development 37A or 37B; Child Development 17A)

##### Family Child Care

A family child care provider is an individual who is licensed to care for up to six children in his/her home. State law requires that the family child care provider must complete 15 hours of child health and safety. This requirement is satisfied by Child Development 6, Child Care, Health and Safety, 3 units. There are currently no additional educational requirements for family child care providers, however, the Child Development Department recommends completion of the Family Child Care Certificate Program.

##### Elementary School Teaching Credential

Students wishing to teach in an elementary school must take the Liberal Studies (Credential) major.

Please note that most child development classes listed above do not count toward the Liberal Studies (Credential) major.

*This material has been prepared as carefully as possible. Fresno City College does not assume responsibility for inaccuracies or changes in the information contained herein after the date of publication.*

## COMMUNICATION STUDIES FOR TRANSFER – FORMERLY SPEECH – MAJOR #5432

The Associate in Arts in Communication Studies for Transfer degree program is designed to prepare students for further study or employment in fields requiring effective and ethical human communication. Communication courses focus on how people use messages to generate meanings within and across various contexts, cultures, channels and media.

The Associate in Arts in Communication Studies for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the Comm. Studies AA-T degree, students must complete a minimum of 60 required semester units of CSU-transferable coursework, including (i) the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements, and (ii) the 18 semester units specified by the Communication Studies degree. These requirements must be obtained with a minimum GPA of 2.0. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate understanding of core communication theories and principles.
2. Organize, develop, and deliver an effective presentation.
3. Critically evaluate various communication situations.

REQUIRED CORE COURSES		Units
COMM 1	Introduction to Public Speaking .....	3
COMM 2	Interpersonal Communication .....	3
COMM 4	Persuasion .....	3
COMM 8	Group Communication .....	3
COMM 25	Argumentation.....	3
Total		15

Choose 3 units from the following:		Units
COMM 20	Community Involvement .....	2-3
COMM 26	Intercollegiate Forensics Laboratory.....	1-3
JOURN 1	Introduction to Mass Communication .....	3
JOURN 3	Newsriting .....	3

## COMMUNICATION SKILLS FOR PROFESSIONALS - MAJOR #5433

The Communication Skills for Professionals Certificate program is designed to enable students to achieve recognition of development in such areas as public speaking, group problem solving and communication, leadership, persuasion and healthy interpersonal relationships in the workplace. In these courses, students will learn how to sharpen communication skills as well as deal with difficult situations with a flexible, genuine and self-confident approach. Students will also learn how

to create persuasive messages based on a sound theoretical foundation and apply influence strategies to gain commitment from others and foster collaboration. The certificate can be completed either in traditional face-to-face classes or online hybrid courses.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Using the workplace as a context, students will construct effective messages that gain commitment from others and foster collaboration.
2. Respond appropriately and genuinely to messages within the workplace.

REQUIRED COURSES		Units
COMM 1	Introduction to Public Speaking .....	3
COMM 2	Interpersonal Communication .....	3
COMM 4	Persuasion .....	3
COMM 8	Group Communication .....	3
Total		12

## COMPUTER AIDED DRAFTING AND DESIGN - FORMERLY DRAFTING - MAJOR #3051

This degree is designed for individuals seeking a career in drafting/CAD. The drafting field serves a number of vocations, professions, and industries. The courses and training are designed along practical lines as required by industry so that students, upon completion of their training, are better qualified to obtain employment in drafting/CAD or related occupations. Additional courses are necessary to fulfill the requirements for the Associate in Science degree. Please refer to the current catalog for more information.

### ASSOCIATE OF SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a portfolio representing their abilities to industry standards as determined by the instructor.
2. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a presentation model from a solid model assembly using various CAD systems to industry standards as determined by the instructor.

First Year - First Semester		Units
AT 10	Technical Computer Applications .....	3
CADD 14	2D CAD I.....	3
CADD 16	3D Solid Modeling I.....	3
DRAFT 12	Drafting Practices.....	3
Total		12

First Year - Second Semester		Units
CADD 22	Mechanical Drawing I.....	3
CADD 24	2D CAD II.....	3
CADD 26A	3D Solid Modeling II.....	3
CADD 28	Product Development I.....	3
Total		12

Second Year - First Semester		Units
CADD 32	Reverse Engineering I.....	3
CADD 36A	3D Solid Modeling III.....	3
Total		6

Second Year - Second Semester		Units
CADD 42	Mechanical Drawing III.....	3
Total		3

*Note: Students planning to receive the AS degree must meet the associate in science degree requirements on page 37.*

**COMPUTER AIDED DRAFTING AND DESIGN**  
FORMERLY DRAFTING - MAJOR #3051

This certificate is designed for individuals seeking a career in drafting/CAD. The drafting field serves a number of vocations, professions, and industries. The courses and training are designed along practical lines as required by industry so that students, upon completion of their training, are better qualified to obtain employment in drafting/CAD or related occupations.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a portfolio representing their abilities to industry standards as determined by the instructor.
2. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a presentation model from a solid model assembly using various CAD systems to industry standards as determined by the instructor.

First Year - First Semester		Units
AT 10	Technical Computer Applications.....	3
CADD 14	2D CAD I.....	3
CADD 16	3D Solid Modeling I.....	3
DRAFT 12	Drafting Practices.....	3
Total		12

First Year - Second Semester		Units
CADD 22	Mechanical Drawing I.....	3
CADD 24	2D CAD II.....	3
CADD 26A	3D Solid Modeling II.....	3
CADD 28	Product Development I.....	3
Total		12

Second Year - First Semester		Units
CADD 32	Reverse Engineering I.....	3
CADD 36A	3D Solid Modeling III.....	3
Total		6

Second Year - Second Semester		Units
CADD 42	Mechanical Drawing III.....	3
Total		3

**2D CAD TECHNICIAN – MAJOR #3053**

This certificate is designed for individuals seeking a career in drafting/CAD that utilizes 2D. The courses and training are designed to meet the requirements of many industries so that students, upon completion of their certificate, are better qualified to obtain employment in occupations requiring 2D drafting/CAD.

**CERTIFICATE**

*Student Learning Outcomes:*

1. Use orthographic projection methods to sketch the three standard views of objects.
2. Modify geometry on existing CAD drawings.
3. Create and modify symbols (blocks) in a drawing.

First Year - First Semester		Units
AT 10	Technical Computer Applications.....	3
CADD 14	2D CAD I.....	3
DRAFT 12	Drafting Practices.....	3
Total		9

First Year - Second Semester		Units
CADD 24	2D CAD II.....	3
Total		3

**3D CAD TECHNICIAN – MAJOR #3054**

This certificate is designed for individuals seeking employment in drafting/CAD that utilizes 3D solid modeling. The courses and training are designed to meet the requirements of many industries so that students, upon completion of their certificate, are better qualified to obtain employment in occupations requiring 3D drafting/CAD.

**CERTIFICATE**

*Student Learning Outcomes:*

1. Create advanced drawings with dimensions and annotations of 3D solid models and assemblies.
2. Create advanced assemblies with components created in the context of an assembly and sub-assemblies.

REQUIRED COURSES		Units
AT 10	Technical Computer Applications.....	3
CADD 16	3D Solid Modeling I.....	3
CADD 26A	3D Solid Modeling II.....	3
DRAFT 12	Drafting Practices.....	3
Total		12

## RECOMMENDED SEQUENCE

First Year – First Semester		Units
AT 10	Technical Computer Applications .....	3
CADD 16	3D Solid Modeling I .....	3
DRAFT 12	Drafting Practices .....	3
First Year - Second Semester		Units
CADD 26A	3D Solid Modeling II .....	3

## 3D CAD/CAM – MAJOR #3055

This certificate is designed for individuals seeking employment in 3D CAD/CAM that utilizes 3D solid modeling and CNC machining. The courses and training are designed to meet the requirements of the manufacturing industry so that students, upon completion of their certificate, are better qualified to obtain employment in occupations requiring 3D CAD/CAM.

## CERTIFICATE

*Student Learning Outcomes:*

1. Create advanced drawings with dimensions and annotations of 3D solid models and assemblies.
2. Operate a CNC machine in a laboratory environment.

REQUIRED COURSES		Units
CADD 16	3D Solid Modeling I .....	3
CADD 26A	3D Solid Modeling II .....	3
CAM 5	CNC Operation & Maintenance for Machinist ...	2.5
CAM 10	CNC Mill Programming & Operation I .....	4
DRAFT 12	Drafting Practices .....	3
Total		15.5

## RECOMMENDED SEQUENCE

First Year – First Semester .....		Units
CADD 16	3D Solid Modeling I .....	3
CAM 5	CNC Operation & Maintenance for Machinist .....	2.5
DRAFT 12	Drafting Practices .....	3
First Year - Second Semester		Units
CADD 26A	3D Solid Modeling II .....	3
CAM 10	CNC Mill Programming & Operation I .....	4



## CAD TECHNICIAN I – MAJOR #3052

These courses provide students with the basic skills and knowledge of drafting and CAD.

## CERTIFICATE

*Student Learning Outcomes:*

1. Use orthographic projection methods to sketch the three standard views of objects.
2. Modify geometry on existing CAD drawings.
3. Draw 2D sketches with dimensions and geometric relations used to create features.

REQUIRED COURSES		Units
CADD 14	2D CAD I .....	3
CADD 16	3D Solid Modeling I .....	3
DRAFT 12	Drafting Practices .....	3
Total		9

## COMPUTER AIDED MANUFACTURING

– FORMERLY MANUFACTURING TECHNOLOGY & MACHINIST  
– MAJOR #8271

The CAM Program is designed for students who have a strong interest in becoming a CAD/CAM/CNC Machinist & Operator. Core courses ensure students with a knowledgeable foundation to operate and setup computer numerical control machines using our Computer Aided Manufacturing laboratory. MasterCAM and Fusion 360 CAD/CAM software are the designing softwares used to create 3D Designs for the generation of G and M codes for CNC machined parts. The Required Courses are intended to start a career as a highly skilled CNC Setup person, a CNC Operator, and a CNC Programmer.

## ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Demonstrate the ability to interpret and apply computer software commands for creating mechanical drawings for the process of machining accurate parts.
2. Setup and operate Computer Numerical Control Machines.
3. Analyze and apply shop safety.

REQUIRED COURSES		Units
AT 10	Technical Computer Applications .....	3
AT 40	Preparing for Employment Opportunities .....	3
AT 140	Introduction to Machine Shop .....	3
CAM 5	CNC Operation & Maintenance for Machinist .....	2.5
CAM 10	CNC Mill Programming & Operation I .....	4
CAM 15	CNC Programming for Machinist .....	2.5
CAM 20	CNC Mill/Programming & Operation II .....	4
CAM 26	Lathe Programming and Operation II .....	3
CAM 31	Multi-Axis Milling & Programming .....	3
Total		28

## COMPUTER AIDED MANUFACTURING

– MAJOR #8271

The CAM Certificate of Achievement Program is designed for students who have a strong interest in becoming a CAD/CAM/CNC Machinist & Operator. Core courses ensure students with a knowledgeable foundation in 3D part designing with Mastercam and Fusion 360 CAD/CAM software for the purpose of Tool Programming. The Required Courses are intended to start a career as a highly skilled CNC Setup person, a CNC Operator, and a CNC Programmer.

### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Demonstrate the ability to interpret and apply computer software commands for creating mechanical drawings for the process of machining accurate parts.
2. Setup and operate Computer Numerical Control Machines.
3. Analyze and apply shop safety.

REQUIRED COURSES	Units
CAM 5      CNC Operation & Maintenance for Machinist .....	2.5
CAM 10     CNC Mill Programming & Operation I .....	4
CAM 15     CNC Programming for Machinist .....	2.5
CAM 20     CNC Mill/Programming & Operation II .....	4
CAM 26     Lathe Programming and Operation II .....	3
CAM 31     Multi-Axis Milling & Programming .....	3
<b>Total</b>	<b>19</b>

## COMPUTER INFORMATION TECHNOLOGY

- FORMERLY INFORMATION SYSTEMS

### COMPUTER INFORMATION SYSTEMS

– MAJOR #2701

This program provides a strong academic preparation in Information Systems and Computer Science. The courses give students the fundamentals in operating systems, information security, networking, current programming languages and development platforms. This major will prepare students for transfer as an Information Systems major to universities as well as entry-level employment.

### ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcome:*

1. Given a business related problem, design and develop a software solution using a programming language.

REQUIRED COURSES	Units
CIT 15      Computer Concepts .....	3
CIT 45      Data Communications .....	3
CIT 48B     A+ and Security Principles .....	4
DS 23      Business Statistics .....	3

Select One of the Following:		Units
CIT 60	Beginning Visual Basic .....	4
CIT 63	Beginning Java Programming .....	4
CIT 66	Beginning C++ Programming .....	4
CIT 70	Beginning Swift Programming .....	4
CIT 93	JavaScript .....	4

Select Two of the Following:		Units
BA 28	E-Law and Ethics .....	3
CIT 28	Client/Server Databases .....	3
CIT 40	Computer Operating Systems .....	4
CIT 50	Fundamentals of Networking .....	4
CIT 58C	Security+ Fundamentals .....	3
CIT 58F	Ethical Hacking .....	3
CIT 65	Android Programming Applications .....	4
CIT 69	iOS Programming Applications .....	4
<b>Total</b>		<b>23-25</b>

*Note: Requires additional general education units for AS degree.*

## ANDROID APPLICATION DEVELOPER

– MAJOR #2730

Designed to assist students who would like to develop mobile applications for Android devices.

### CERTIFICATE

*Student Learning Outcome:*

1. Given a business programming scenario, create an interactive mobile application as a solution to the scenario. Students will use Android programming software to design, code, debug and deploy an object-oriented program.

REQUIRED CORES	Units	
CIT 63      Beginning Java Programming .....	4	
CIT 65      Android Programming Applications .....	4	
<b>Total</b>		<b>8</b>

## APPLE IOS DEVELOPER – MAJOR #2731

Designed to assist students who would like to develop mobile applications for Apple devices.

### CERTIFICATE

*Student Learning Outcome:*

1. Given a business programming scenario, create an interactive mobile application as a solution to the scenario. Students will use iOS programming software to design, code, debug and deploy an object-oriented program.

REQUIRED COURSES	Units	
CIT 69      iOS Programming Applications .....	4	
CIT 70      Beginning Swift Programming .....	4	
<b>Total</b>		<b>8</b>

**CYBER TECHNICIAN SPECIALIST – MAJOR #2751**

This option is designed to meet the training needs for qualified entry-level hardware/software and basic security personnel.

**CERTIFICATE***Student Learning Outcome:*

1. Prepare students for an entry level position in the IT/Cybersecurity field.

REQUIRED COURSES		Units
CIT 48A	IT+ Fundamentals.....	3
CIT 48B	A+ and Security Principles .....	4
Total		7

**CYBERSECURITY – MAJOR #2750**

The California Community College's Information Technology Cyber Security Certificate Collaborative Program is a fully online, zero textbook cost program designed to prepare students for entry level cyber security positions across industry and government and also prepare students to sit for nationally recognized certification exams from Cisco and CompTIA.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Create and implement security policies for an organization.
2. Configure computer and networks to protect information from exfiltration.

REQUIRED COURSES		Units
CIT 45	Data Communications.....	3
CIT 48A	IT+ Fundamentals.....	3
CIT 48B	A+ and Security Principles .....	4
CIT 54A	Network Security .....	3
CIT 54B	Cybersecurity Operations .....	3
CIT 58C	Security+ Fundamentals.....	3
CIT 59	Linux System Administration .....	3
EST 62	Commercial & Industrial Networking .....	3
Total		25

**INFORMATION SECURITY I – MAJOR #2714**

Designed to meet the training needs for qualified entry-level computer network security professionals. It is also designed to help prepare students for industry standard security certifications like CompTIA Security+, CyberSecurity Information Systems Security Professional (CISSP) and others.

**CERTIFICATE***Student Learning Outcomes:*

1. Given a business scenario, assess and control risk, create a blueprint for security, control network remote access, and manage e-mail and website security.

REQUIRED COURSES		Units
CIT 40	Computer Operating Systems.....	4
CIT 57	Wireless Network Security.....	3
CIT 58B	Computer Forensics.....	3
CIT 58C	Security+ Fundamentals.....	3
Total		13

**RECOMMENDED SEQUENCE**

Semester 1		Units
CIT 40	Computer Operating Systems.....	4
CIT 58C	Security+ Fundamentals.....	3
Semester 2		Units
CIT 57	Wireless Network Security.....	3
CIT 58B	Computer Forensics.....	3

**INFORMATION SECURITY II – MAJOR #2715**

Designed to meet the training needs for qualified entry-level computer network security professionals. It is also designed to help prepare students for industry standard security certifications like CompTIA Security+, Security Certified Professional (SCP), and others.

**CERTIFICATE***Student Learning Outcomes:*

1. Given a business scenario, perform a security risk analysis, design a security policy, choose and configure a firewall, and set up a virtual private network (VPN).
2. Use hacking tools and techniques to hack web servers and wireless networks to determine the security risk and the appropriate cryptography and network security devices needed to limit the security risk of a business.

REQUIRED COURSES		Units
CIT 50	Fundamentals of Networking.....	4
CIT 58D	Network Defense and Countermeasures .....	3
CIT 58E	Penetration Testing.....	3
CIT 58F	Ethical Hacking .....	3
Total		13

**RECOMMENDED SEQUENCE**

Semester 1		Units
CIT 50	Fundamentals of Networking.....	4
CIT 58F	Ethical Hacking .....	3
Semester 2		Units
CIT 58D	Network Defense and Countermeasures .....	3
CIT 58E	Penetration Testing.....	3

## MICROSOFT CERTIFIED SPECIALIST – FORMERLY MCTC NETWORKING - MAJOR #2724

Designed to meet the training needs for qualified entry-level Microsoft Certified Technology Specialist network technicians. It is also designed to help prepare for the industry certification tests.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Students will be able to describe the logical and physical components of Active Directory, plan and implement an organizational unit structure, plan and implement a Group Policy strategy to centrally manage users and computers in an enterprise, implement sites to manage and monitor Active Directory replication, plan and manage operations masters, and plan and implement an Active Directory infrastructure that is based on a directory service design provided by an enterprise architect.
2. Students will be able to install and upgrade to Windows XP Professional, configure and manage files systems, configure the desktop environment, use profiles to control desktop customization, configure Windows XP Professional to operate on Windows networks, and configure Windows XP Professional for mobile computing.
3. Students will be able to describe the process for designing an Active Directory infrastructure and a network infrastructure that supports Active Directory, design a site infrastructure that meets the needs of an organization, design an administrative structure that meets the needs of an organization, design a Dynamic Host Configuration Protocol (DHCP) structure that supports Active Directory and meets the needs of the organization, and design a name resolution strategy that supports Active Directory and meets the needs of the organization.
4. Students will be able to outline best practices for the information security goals of confidentiality, integrity and availability, explain ethical practices, define vocabulary/terminology related to information security, explain the importance of planning and administrative controls, identify security threats, vulnerabilities, and counter-measures, and identify procedures for security risk management.

REQUIRED COURSES		Units
CIT 28	Client/Server Databases .....	3
CIT 50	Fundamentals of Networking .....	4
CIT 55	Database Security .....	3
CIT 60	Beginning Visual Basic .....	4
Total		14

#### RECOMMENDED SEQUENCE

Semester 1		Units
CIT 50	Fundamentals of Networking .....	4
CIT 60	Beginning Visual Basic .....	4
Semester 2		Units
CIT 28	Client/Server Databases .....	3
CIT 55	Database Security .....	3

## NETWORKING/COMPUTER TECHNICIAN – MAJOR #2720

This option is designed to meet the training needs for qualified entry-level microcomputer and networking technicians.

### ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Construct and apply an IP addressing scheme for a simple network problem.
2. Configure a router for communication on both Ethernet and serial ports with given instructions or scenarios.
3. Define and apply digital numbering systems.
4. Explain how networks are interconnected and understand how operating system software affects the hardware.
5. Install and configure the network server operating system software, and manage servers, users, and resources with a server manager utility, and monitor network system performance.

#### REQUIRED CORE COURSES

	Units	
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English .....	3
CIT 15	Computer Concepts .....	3
CIT 19	Work Experience (Cooperative), Occupational.....	2
CIT 40	Computer Operating Systems .....	4
CIT 45	Data Communications .....	3
CIT 50	Fundamentals of Networking .....	4
EST 55A	Digital Concepts .....	3
EST 60	A+PC Maintenance and Repair .....	3
EST 61	Networking Fundamentals .....	3
EST 62	Commercial & Industrial Networking .....	3
Total		34

#### RECOMMENDED SEQUENCE

First Semester		Units
CIT 15	Computer Concepts .....	3
CIT 45	Data Communications .....	3
EST 55A	Digital Concepts .....	3
EST 60	A+ PC Maintenance and Repair .....	3
EST 61	Networking Fundamentals .....	5
Second Semester		Units
BT 23	Job Search and Workplace Skills .....	3
BT 112	Business English .....	3
CIT 19	Work Experience (Cooperative), Occupational.....	2
CIT 40	Computer Operating Systems .....	4
CIT 50	Fundamentals of Networking .....	4
EST 62	Commercial & Industrial Networking .....	3

*Note: Requires additional general education units for AS degree.*

**PREPARATION IN MICROSOFT OFFICE****– MAJOR #2710**

Designed for the nontransfer student leading to employment as a microcomputer software specialist or similar computer specialist. Completing the program with the college graduation requirements leads to an AS degree; without the graduation requirements, student is eligible for a certificate of achievement.

**CERTIFICATE***Student Learning Outcomes:*

- Given a business scenario, select and use an appropriate application program to create a solution addressing the scenario.
- Given a Microsoft Office related software problem, troubleshoot, identify, research, and provide assistance to users.

First Semester	Units
BT 28      Microsoft Word I .....	1.5
BT 29      Microsoft Word II .....	1.5
BT 127     Microsoft Outlook and E-Mail .....	1

Second Semester	Units
CIT 23     Spreadsheet Fundamentals .....	2
Total	6

*Note: Courses in the program have CIT 12 or CIT 15 as prerequisites.*

**SYSTEM SUPPORT SPECIALIST – MAJOR #2723**

This option is designed to meet the training needs for qualified entry-level systems support personnel.

**CERTIFICATE***Student Learning Outcome:*

- Given a software or hardware problem, configure, troubleshoot, and repair the computer.

*Suggested sequence of courses:*

REQUIRED COURSES	Units
CIT 40      Computer Operating Systems.....	4
CIT 45      Data Communication.....	3
CIT 48B     A+ and Security Principles .....	4
EST 60     A+ PC Maintenance and Repair .....	3
Total	14

**WEB DEVELOPER****– FORMERLY WEBMASTER – MAJOR #2742**

This option is designed to prepare students for work in the computer industry as Web Developers. Completing the program with the college graduation requirements leads to an AS degree; without the graduation requirements, student is eligible for a certificate of achievement.

**ASSOCIATE IN SCIENCE DEGREE***Student Learning Outcome:*

- Given a business scenario create an interactive client-side and/or server-side, data driven website using appropriate tools to create a solution addressing the scenario.

REQUIRED COURSES	Units
CIT 82      Introduction to Web Development .....	3
CIT 85      HTML and CSS .....	3
CIT 90      Beginning Go Language Programming .....	4
CIT 93      JavaScript .....	4
Choose Two of the Following	Units
CIT 28      Client/Server Databases .....	3
CIT 63      Beginning Java Programming .....	4
CIT 84      Web Development Frameworks .....	4
CIT 94      Node.js.....	4
CIT 97      Web Development with the Go Programming Language .....	4
CIT 99      Introduction to Machine Learning .....	4
Total	21-22

**WEB DEVELOPER – FORMERLY WEBMASTER****- MAJOR #2742**

This option is designed to prepare students for work in the computer industry as Web Developers. Completing the program with the college graduation requirements leads to an AS degree; without the graduation requirements, student is eligible for a certificate of achievement.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcome:*

- Given a business scenario create an interactive client-side and/or server-side, data driven website using appropriate tools to create a solution addressing the scenario.

REQUIRED COURSES	Units
CIT 82      Introduction to Web Development .....	3
CIT 85      HTML and CSS .....	3
CIT 90      Beginning Go Language Programming .....	4
CIT 93      JavaScript .....	4
Choose Two of the Following	Units
CIT 28      Client/Server Databases .....	3
CIT 63      Beginning Java Programming .....	4
CIT 84      Web Development Frameworks .....	4
CIT 94      Node.js.....	4
CIT 97      Web Development with the Go Programming Language .....	4
CIT 99      Introduction to Machine Learning .....	4
Total	21-22



**WEB PAGE DEVELOPMENT - MAJOR #2741**

This certificate option is designed to assist students who would like to develop web pages.

**CERTIFICATE***Student Learning Outcome:*

- Given a business scenario create interactive web pages to create a solution addressing the scenario.

REQUIRED COURSES		Units
CIT 82	Introduction to Web Development .....	3
CIT 85	HTML and CSS .....	3
CIT 93	JavaScript .....	4
Total		10

**CONSTRUCTION – MAJOR #8091**

The construction curriculum is designed to provide students with hands-on training strengthened with technical information that will prepare them for entry into the construction industry or for their own personal construction projects. Specialty courses are available in Plumbing and Electrical to give students a greater depth of knowledge in construction.

**ASSOCIATE IN SCIENCE DEGREE***Student Learning Outcomes:*

- Construct foundation forms for a slab on grade.
- Correctly install vinyl windows in a newly framed residence.
- Correctly install and finish drywall.
- Install pre-hung doors.
- Lay out and square a building foundation.
- Install roof sheathing.

First Year - First Semester		Units
ARCH 12	Architectural Practice I .....	2
CONS 50	Basic Residential Construction.....	4
CONS 51	Residential Construction: Foundations and Framing .....	9
First Year - Second Semester		Units
ARCH 21	Materials of Construction .....	3
AT 21	Occupational Safety and Health.....	2
CONS 53	Residential Construction: Exterior and Interior Finish.....	9
Second Year - First Semester		Units
ARCH 22	Architectural Practice II .....	3
CONS 55	Roof Framing Systems .....	2.5
CONS 56A	Residential Plumbing 1, and	
CONS 56AL	Residential Wiring 1, or	
CONS 175A	Residential Wiring 1, and	
CONS 175AL	Residential Wiring Lab 1	3.5-4.5

Second Year - Second Semester		Units
CONS 56B	Residential Plumbing 2, and	
CONS 56BL	Residential Plumbing Lab 2, or	
CONS 175B	Residential Wiring 2, and	
CONS 175BL	Residential Wiring Lab 2.....	3.5-4.5
Total		41.5-43.5

*Note:* Students qualify for the certificate of achievement upon completion of the major requirements listed above. In addition, those completing the associate degree requirements on page 37 of the catalog, upon application, will be awarded the associate in science degree.

**CONSTRUCTION – MAJOR #8091**

The construction curriculum is designed to provide students with hands-on training strengthened with technical information that will prepare them for entry into the construction industry or for their own personal construction projects. Specialty courses are available in Plumbing and Electrical to give students a greater depth of knowledge in construction.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

- Install roof sheathing.
- Construct foundation forms for a slab on grade.
- Correctly install vinyl windows in a newly framed residence.
- Correctly install and finish drywall.
- Install pre-hung doors.
- Lay out and square a building foundation.
- Rough wire a residential building to trade practices and code requirements.
- Install finish electrical apparatus.

First Year - First Semester		Units
ARCH 12	Architectural Practice I .....	2
CONS 50	Basic Residential Construction.....	4
CONS 51	Residential Construction: Foundations and Framing.....	9
First Year - Second Semester		Units
ARCH 21	Materials of Construction.....	3
AT 21	Occupational Safety and Health.....	2
CONS 53	Residential Construction: Exterior and Interior Finish.....	9
Second Year - First Semester		Units
AT 130	Industrial Mathematics.....	3
AT 131	Technical Report Writing .....	3
CONS 55	Roof Framing Systems .....	2.5
CONS 56A	Residential Plumbing 1, and	
CONS 56AL	Residential Plumbing Lab 1, or	
CONS 175A	Residential Wiring 1, and	
CONS 175AL	Residential Wiring Lab 1 .....	3.5-4.5

Second Year - Second Semester		Units
CONS 56B	Residential Plumbing 2, <i>and</i>	
CONS 56BL	Residential Plumbing Lab 2, <i>or</i>	
CONS 175B	Residential Wiring 2, <i>and</i>	
CONS 175BL	Residential Wiring Lab 2.....	3.5-4.5
Total		44.5-46.5

### RESIDENTIAL CONSTRUCTION – MAJOR #8092

The construction curriculum in this program is designed to provide students with hands-on training and technical information that will prepare them for entry into the construction industry or for personal construction projects.

#### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Students will participate in the construction of a complete residential structure.
2. Students will participate in correct installation of roof trusses.
3. Students will construct wall framing according to trade practices and instructor's satisfaction.
4. Students will experience slab on grade installation according to trade practices and instructor's satisfaction.

First Year - First Semester		Units
CONS 51	Residential Construction: Foundations and Framing.....	9
First Year - Second Semester		Units
CONS 53	Residential Construction: Exterior and Interior Finish.....	9
Total		18

### RESIDENTIAL CONSTRUCTION WIRING

– MAJOR #8092

The construction curriculum is designed to provide students with technical and hands-on training in residential wiring including introduction to the National Electrical Code.

#### CERTIFICATE

*Student Learning Outcomes:*

1. Rough wire a residential building to trade practices and code requirements.
2. Interpret the NEC as it pertains to residential wiring and apply those requirements.
3. Install finish electrical apparatus.

First Year - First Semester		Units
CONS 175A	Residential Wiring 1.....	4
CONS 175AL	Residential Wiring Lab 1.....	0.5
First Year - Second Semester		Units
CONS 175B	Residential Wiring 2.....	4
CONS 175BL	Residential Wiring Lab 2.....	0.5
Total		9

## CRIMINOLOGY

– FORMERLY ADMINISTRATION OF JUSTICE

### ADMINISTRATION OF JUSTICE FOR TRANSFER

– MAJOR #7750

Administration of justice is the study of the causes, consequences, and control of crime. The program leading to the Associate in Science in the Administration of Justice for Transfer [AS-T] is designed to acquaint students with the principles and practices of criminal justice systems in America. The curriculum allows for the development of depth in one of the subject's subsystems (law enforcement, juvenile, courts, or corrections), and also gain familiarity with the basics of all areas. It is both academic and professional in that it is an interdisciplinary attempt to relate intellectual issues and practitioner perspectives to the challenge of crime in a free society. It provides the information necessary for employment with a related agency and/or transfer to a college or university. Those completing the AS-T in Administration of Justice will be able to transfer to the California State University System, and be prepared to study in Administration of Justice, Law Enforcement, Correctional Administration, Social Science, and Pre-Law. Upon completion students will be prepared to pursue a BA/BS in Criminal Justice. To earn the transfer degree students must complete a minimum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18-20 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

#### ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Reflect critically on developments in criminal justice policy and the relationship of those policies to the wider political and social environment.
2. Compare and evaluate diverse and competing arguments in disciplinary (justice system) and interdisciplinary contexts.
3. Demonstrate knowledge of the history, structure and processes of law enforcement, the judicial system, the correctional system, and juvenile justice system.
4. Define and utilize key terms, concepts, and theories in the criminal justice system.
5. Interpret, assess, and compare competing types of evidence and data.
6. Effectively communicate orally and in writing the results of their analysis and conclusions.

REQUIRED CORE		Units
CRIM 1	Introduction to Criminology .....	3
CRIM 6	Concepts of Criminal Law .....	3
Select two courses from the following:		Units
CRIM 3	Legal Aspects of Evidence .....	3
CRIM 4	Principles & Procedures of the Justice System ....	3
CRIM 5	Community Relations .....	3
CRIM 8	Criminal Investigation .....	4
CRIM 9	Crime Scene Forensic Evidence .....	3
CRIM 11	Juvenile Delinquency .....	3
CRIM 20	Introduction to Corrections .....	3
Select two courses from the following:		Units
CRIM 13	The Constitution and Your Individual Rights .....	3
MATH/PSY 42	Statistics for the Behavioral Sciences, <i>or</i>	
MATH 11	Elementary Statistics .....	4
PSY 2/2H	General Psychology, <i>or</i>	
Honors General Psychology .....		3
SOC 1A/1AH	Introduction to Sociology, <i>or</i>	
Honors Introduction to Sociology .....		3
Total		18-20

### CORRECTIONAL SCIENCE OPTION – MAJOR #7731

Designed to provide specialized education for those students desiring a career in the correctional field including employment as a juvenile correctional officer, a state of California corrections officer, a jail correctional officer and a probation and parole officer. This degree is also designed to provide those students who are pursuing careers in the correctional field of criminology, the opportunity to broaden their knowledge and appreciation of the many levels of corrections and the value of correctional roles in the criminal justice system.

This degree will also serve as a primer for those students who wish to pursue a higher level of education in corrections at the university level.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcome:*

- The students will understand state and federal regulations and have knowledge of correctional systems.

REQUIRED CORE COURSES		Units
CRIM 4	Principles & Procedures of the Justice System .....	3
CRIM 6	Concepts of Criminal Law .....	3
CRIM 12	Criminal Justice Communications .....	3
CRIM 13	The Constitution and Your Individual Rights .....	3
CRIM 20	Introduction to Corrections .....	3

Course Options: Select Any 16 Units		Units
CRIM 1	Introduction to Criminology .....	3
CRIM 5	Community Relations .....	3
CRIM 8	Criminal Investigation .....	4
CRIM 11	Juvenile Delinquency .....	3
CRIM 18	The Psychology of Criminal Behavior .....	3

CRIM 23	Correctional Interviewing and Counseling.....	3
CRIM 24	Control and Supervision in Corrections .....	3
CRIM 25	Legal Aspects of Corrections.....	3
+*Ethnic Studies	Any course listed below .....	3
+HMONG	Any level .....	5
HS 24	Fundamentals of Interviewing and Counseling.....	3
PSY 2/2H	General Psychology, <i>or</i>	
Honors General Psychology.....		3
PSY 16	Abnormal Psychology .....	3
+SPANISH	Any level .....	5
WSTS 10	Changing Roles of Women.....	3
Total		31

\* Choose from AFRAM 1, 2, or 4; AMIND 31, 32, or 34; ASAMER 1 or 15; or CLS 11, 12, 13, 14, 24, 28, 29, or 30.

+Also fulfills degree or transfer requirements.

##### *Note:*

- An associate in science degree will be awarded to any candidate who successfully completes a minimum of 60 units.

#### STUDENTS TRANSFERRING FROM THE POLICE ACADEMY:

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

### CORRECTIONAL SCIENCE OPTION – MAJOR #7731

This certificate provides specialized education for those students desiring a career in the correctional field including employment as a juvenile correctional officer, a state of California corrections officer, a jail correctional officer and parole officer.

This certificate is also designed to provide students who are pursuing careers in the correctional field, the opportunity to broaden their technical knowledge of the many levels of correctional employment opportunities.

#### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcome:*

- The students will understand state and federal regulations and have knowledge of correctional systems.

REQUIRED CORE COURSES		Units
CRIM 4	Principles & Procedures of the Justice System .....	3
CRIM 6	Concept of Criminal Law .....	3
CRIM 12	Criminal Justice Communications .....	3
CRIM 13	The Constitution and Your Individual Rights .....	3
CRIM 20	Introduction to Corrections .....	3

Course Options: Select Any 16 Units		Units
CRIM 1	Introduction to Criminology .....	3
CRIM 5	Community Relations .....	3
CRIM 8	Criminal Investigation .....	4
CRIM 11	Juvenile Delinquency .....	3
CRIM 18	The Psychology of Criminal Behavior .....	3
CRIM 23	Correctional Interviewing and Counseling.....	3
CRIM 24	Control and Supervision in Corrections .....	3
CRIM 25	Legal Aspects of Corrections.....	3
*Ethnic Studies	Any Course Listed Below .....	3
HMONG	Any Level .....	5
HS 24	Fundamentals of Interviewing and Counseling.....	3
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
PSY 16	Abnormal Psychology .....	3
SPANISH	Any Level .....	5
WSTS 10	Changing Roles of Women.....	3
Total		31

\*Choose from AFRAM 1, 2, or 4; AMIND 31, 32, or 34; ASAMER 1 or 15; or CLS 11, 12, 13, 14, 24, 28, 29, or 30.

**STUDENTS TRANSFERRING FROM THE POLICE ACADEMY:**

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

**CRIMINOLOGY OPTION – MAJOR #7700**

A Criminology program designed for upper division work in law enforcement, corrections, or victimology.

**ASSOCIATE IN SCIENCE DEGREE**

*Student Learning Outcomes:*

1. Recognize, name and define the key terms necessary for further study in criminology including its sub specializations of law enforcement, corrections, and victimology.
2. Explain the significance and importance of criminology to the society in which they live.
3. Identify the principle discoveries and contributions in the study of criminology and appraise critical areas for further inquiry.
4. Be familiar with a base of knowledge to make educated field level decisions in law enforcement, corrections, or victimology.

REQUIRED CORE COURSES		Units
CRIM 1	Introduction to Criminology .....	3
CRIM 4	Principles and Procedures of the Justice System .....	3
CRIM 5	Community Relations .....	3

CRIM 6	Concepts of Criminal Law .....	3
CRIM 12	Criminal Justice Communications .....	3
*CRIM 13	The Constitution and Your Individual Rights .....	3
CRIM 15	Introduction to Police Ethics .....	3
Total		21

Course Options: Select 9 Units		Units
*AFRAM 1	Introduction to African American Studies, <i>or</i> *AFRAM 4 Classical and Pre Colonial Africa.....	3
*AMIND 31	American Indian Culture, <i>or</i> *AMIND 34 The American Indian in Contemporary Society.....	3
CRIM 16	Introduction to Victimology.....	3
*PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
*SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology .....	3
*SOC 2	American Minority Groups .....	3
*SOC/CLS 14	Sociology of the Mexican American Community, <i>or</i> *CLS 11 Introduction to Chicano-Latino Studies, <i>or</i> *ASAMER 15 Introduction to Asian-Americans.....	3
*WSTS 10	Changing Roles of Women.....	3

\* Also fulfills degree or transfer requirements

*Note: An associate in science degree will be awarded to any candidate who successfully completes a minimum of 60 units. The 60-unit minimum must include associate degree requirements and 39 units of course work listed above.*

**STUDENTS TRANSFERRING FROM THE POLICE ACADEMY:**

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

**CRIMINOLOGY OPTION – MAJOR #7700**

A transfer program designed for upper division work in law enforcement, corrections, or victimology.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Recognize, name and define the key terms necessary for employment or for further study in criminology including its sub-fields of law enforcement, corrections, and victimology.
2. Explain the significance and importance of criminology [including law enforcement, corrections, and victimology] to the society in which they live.
3. Identify the principle discoveries and contributions of the study of criminology, and appraise critical areas for further academic inquiry.
4. Make educated field level decisions in law enforcement, corrections, and victimology.

REQUIRED CORE COURSES		Units
CRIM 1	Introduction to Criminology .....	3
CRIM 4	Principles and Procedures of the Justice System .....	3
CRIM 5	Community Relations .....	3
CRIM 6	Concepts of Criminal Law .....	3
CRIM 12	Criminal Justice Communications .....	3
CRIM 13	The Constitution and Your Individual Rights .....	3
CRIM 15	Introduction to Police Ethics .....	3
Total		21

Course Options: Select 9 Units		Units
AFRAM 1	Introduction to African American Studies, <i>or</i>	
AFRAM 4	Classical and Pre Colonial Africa .....	3
AMIND 31	American Indian Culture, <i>or</i>	
AMIND 34	The American Indian in Contemporary Society .....	3
CLS 11	Introduction to Chicano-Latino Studies, <i>or</i>	
CLS/SOC 14	Sociology of the Mexican American Community .....	3
CRIM 16	Introduction to Victimology .....	3
PSY 2/2H	General Psychology, <i>or</i>	
	Honors General Psychology .....	3
SOC 1A/1AH	Introduction to Sociology, <i>or</i>	
	Honors Introduction to Sociology .....	3
SOC 2	American Minority Groups .....	3
WSTS 10	Changing Roles of Women .....	3

#### STUDENTS TRANSFERRING FROM THE POLICE ACADEMY:

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

#### FORENSIC EVIDENCE OPTION – MAJOR #7732

Designed to provide specialized education for those students desiring a career as crime scene investigators, evidence technicians, or forensic evidence technicians. This degree is also designed to provide those students who are pursuing careers in law enforcement the opportunity to broaden their knowledge and appreciation for the value that forensic evidence plays in the role of solving crime. This degree will also serve as a primer for those students who wish to pursue a higher level of education in forensics at the university level. This Forensic Evidence Degree program has been approved by the International Association for Identification (IAI).

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Make an assessment of a crime scene and organize a systematic search for evidence.
2. Collect and process evidence, including analysis and comparison of evidence.
3. Reconstruct a crime scene and prepare evidence for presentation in a judicial proceeding.

REQUIRED CORE COURSES		Units
ANTHRO 1	Biological Anthropology .....	3
ANTHRO 1L	Biological Anthropology Laboratory .....	1
BIOL 11A	Biology for Science Majors I .....	5
CADD 14	2D CAD I .....	3
CHEM 1A	General Chemistry .....	5
CRIM 1	Introduction to Criminology .....	3
CRIM 3	Legal Aspects of Evidence .....	3
CRIM 8	Criminal Investigation .....	4
CRIM 9	Crime Scene Forensic Evidence .....	3
CRIM 12	Criminal Justice Communications .....	3

Course Options: Select 6 Units		Units
BIOL 11B	Biology for Science Majors II .....	5
CRIM 18	The Psychology of Criminal Behavior .....	3
PHOTO 5	Introduction to Photography .....	3
PSY 2/2H	General Psychology, <i>or</i>	
	Honors General Psychology .....	3
PSY 16	Abnormal Psychology .....	3
Total		39

*Note: An associate in science degree will be awarded to any candidate who successfully complete a minimum of 60 units. The 60 units must include associate degree requirements and 39 units of course work listed above.*

#### STUDENTS TRANSFERRING FROM THE POLICE ACADEMY:

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

**FORENSIC EVIDENCE OPTION – MAJOR #7732**

Designed to provide specialized education for those students desiring a career as crime scene investigators, evidence technicians, or forensic evidence technicians. This certificate of achievement is also designed to provide those students who are pursuing careers in law enforcement the opportunity to broaden their knowledge and appreciation for the value that forensic evidence plays in the role of solving crime. This certificate of achievement will also serve as a primer for those students who wish to pursue a higher level of education in forensics at the university level. This Forensic Evidence Certificate of Achievement program is approved by the International Association for Identification (IAI).

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Make an assessment of a crime scene and organize a systematic search for evidence.
2. Collect and process evidence, including analysis and comparison of evidence.
3. Reconstruct a crime scene and prepare evidence for presentation in a judicial proceeding.

REQUIRED CORE COURSES		Units
ANTHRO 1	Biological Anthropology.....	3
ANTHRO 1L	Biological Anthropology Laboratory.....	1
BIOL 11A	Biology for Science Majors I.....	5
CADD 14	2D CAD I.....	3
CHEM 1A	General Chemistry.....	5
CRIM 1	Introduction to Criminology.....	3
CRIM 3	Legal Aspects of Evidence.....	3
CRIM 8	Criminal Investigation.....	4
CRIM 9	Crime Scene Forensic Evidence.....	3
CRIM 12	Criminal Justice Communications.....	3
Total		33

**STUDENTS TRANSFERRING FROM THE POLICE ACADEMY:**

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

**LAW ENFORCEMENT OPTION – MAJOR #8872**

This degree is designed for students considering careers as police officers, sheriff’s deputies, or highway patrol officers.

**ASSOCIATE IN SCIENCE DEGREE**

*Student Learning Outcomes:*

1. Describe the development and history of law enforcement in the western world.
2. Compare and contrast legal and constitutional issues.
3. Compare and contrast components of the American criminal justice system.

REQUIRED CORE COURSES		Units
CRIM 1	Introduction to Criminology.....	3
CRIM 5	Community Relations.....	3
CRIM 6	Concepts of Criminal Law.....	3
CRIM 7	Concepts of Enforcement Services.....	3
CRIM 8	Criminal Investigation.....	4
CRIM 12	Criminal Justice Communications.....	3
CRIM 15	Introduction to Police Ethics.....	3
Total		22

**Course Options: Select 9 Units** Units

*AFRAM 1	Introduction to African American Studies, <i>or</i>	
*AFRAM 4	Classical and Pre Colonial Africa.....	3
*AMIND 31	American Indian Culture, <i>or</i>	
*AMIND 34	The American Indian in Contemporary Society.....	3
*CLS 11	Introduction to Chicano-Latino Studies, <i>or</i>	
*SOC/CLS 14	Sociology of the Mexican American Community.....	3
CRIM 3	Legal Aspects of Evidence.....	3
CRIM 11	Juvenile Delinquency.....	3
CRIM 13	The Constitution and Your Individual Rights.....	3
*PSY 2/2H	General Psychology, <i>or</i>	
	Honors General Psychology.....	3
*SOC 1A/1AH	Introduction to Sociology, <i>or</i>	
	Honors Introduction to Sociology.....	3
*SOC 2	American Minority Groups.....	3
*WSTS 10	Changing Roles of Women.....	3

*\*Also fulfills degree or transfer requirements*

*Note: An associate in science degree will be awarded to any candidate who successfully completes a minimum of 60 units. The 60-unit minimum must include associate degree requirements and 42-43 units of course work listed above.*

**STUDENTS TRANSFERRING FROM THE POLICE ACADEMY:**

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

**LAW ENFORCEMENT OPTION – MAJOR #8872**

This certificate of achievement is designed for students considering careers as police officers, sheriff's deputies, or highway patrol officers.  
**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Describe the development and history of law enforcement in the western world.
2. Compare and contrast legal and constitutional issues.
3. Compare and contrast components of the American criminal justice system.

REQUIRED COURSES		Units
CRIM 1	Introduction to Criminology .....	3
CRIM 5	Community Relations .....	3
CRIM 6	Concepts of Criminal Law .....	3
CRIM 7	Concepts of Enforcement Services .....	3
CRIM 8	Criminal Investigation .....	4
CRIM 12	Criminal Justice Communications .....	3
CRIM 15	Introduction to Police Ethics .....	3
Total		22

Course Options: Select 9 Units Units

AFRAM 1	Introduction to African American Studies, <i>or</i>	
AFRAM 4	Classical and Pre Colonial Africa .....	3
AMIND 31	American Indian Culture, <i>or</i>	
AMIND 34	The American Indian in Contemporary Society .....	3
CLS 11	Introduction to Chicano-Latino Studies, <i>or</i>	
SOC/CLS 14	Sociology of the Mexican American Community .....	3
CRIM 3	Legal Aspects of Evidence .....	3
CRIM 11	Juvenile Delinquency .....	3
CRIM 13	The Constitution and Your Individual Rights .....	3
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology .....	3
SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology .....	3
SOC 2	American Minority Groups .....	3
WSTS 10	Changing Roles of Women .....	3

**STUDENTS TRANSFERRING FROM THE POLICE ACADEMY:**

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

**PRE-ACADEMY TRAINING OPTION**

– MAJOR #8923

Non-affiliated students who intend to undertake training through the Police Academy can enhance their chances of success by taking the Pre-Academy Certificate of Achievement program listed below.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcome:*

1. The student will have the fundamental knowledge of related subjects matters taught at a POST Police Academy.

REQUIRED COURSES		Units
CRIM 3	Legal Aspects of Evidence .....	3
CRIM 4	Principles and Procedures of the Justice System .....	3
CRIM 6	Concepts of Criminal Law .....	3
CRIM 8	Criminal Investigating .....	4
CRIM 12	Criminal Justice Communications .....	3
CRIM 13	The Constitution and Your Individual Rights .....	3
CRIM 15	Introduction to Police Ethics .....	3
ENGL 1A/1AH	Reading and Composition, <i>or</i> Honors Reading and Composition .....	4
Total		26

*Note: This certificate of achievement program is strongly recommended. However, it is not a prerequisite for admission to the Police Academy.*

*For more information on the Police Academy, call 442-8264.*

**CULINARY ARTS****BASIC CULINARY ARTS – MAJOR #5684**

This certificate is designed to prepare students for entry level employment (prep cook, fry cook, line cook) in the field of food service.

**CERTIFICATE***Student Learning Outcomes:*

1. Identify the causes of food borne illness and the practices to prevent food borne illness in a food service system.
2. Demonstrate proper meal service and plate presentation.
3. Identify and compare preparation methods to optimize nutrition content.

REQUIRED COURSES		Units
FN 1	Principles of Food Preparation .....	3
FSM 35	Food Services, Sanitation, Safety and Equipment .....	2
FSM 144	Presenting Service for Food Service Professionals .....	2
FSM 146	Elementary Food Service Computation I .....	1.5
Total		8.5

## INTERMEDIATE CULINARY ARTS – MAJOR #5685

This certificate is designed to prepare students for entry level food service employment (prep cook, fry cook, line cook) in health care facilities such as hospitals and long term health care.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Demonstrate quantity food preparation techniques.
2. Evaluate the nutritional content of foods and menus.
3. Use mathematical formulas to manage cost control in food service delivery.

REQUIRED COURSES		Units
FN 35	Nutrition and Health .....	3
FSM 38	Quantity Food Preparation.....	3
FSM 147	Elementary Food Service Computation II .....	1.5
Total		7.5

## ADVANCED CULINARY ARTS – MAJOR #5686

This certificate is designed to prepare students for entry level management positions in food service.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Use specification standards to purchase food and nonfood items.
2. Apply different management theories and styles of leadership in the management of a food service establishment.
3. Prepare a multi-course meal demonstrating proper knife skills, food safety, and proper cooking techniques.

REQUIRED COURSES		Units
FN 2	Advanced Food Preparation .....	3
FSM 11	Food Service Supervision .....	2
FSM 15	Food Production Management .....	2
FSM 19	Work Experience (Cooperative), Occupational.....	3
FSM 25	Food & Beverage Purchase & Control.....	2
Total		12

## CULTURAL STUDIES

### SOCIAL JUSTICE STUDIES, GENERAL FOR TRANSFER – MAJOR #7663

Social Justice Studies was created as an "Area of Emphasis" Associate Degree for Transfer (ADT). This ADT includes Programs in Cultural or Ethnic Studies and Women's Studies, and is designed to give students a broad background in the histories of various racial and ethnic groups, and the contemporary challenges faced by these groups in our society. Social Justice is the basic principle that all members of a society are entitled to equal rights and opportunities, and Social Justice Studies seeks to examine existing inequities, particularly as they relate to race, ethnicity, gender, and sexuality. The Social Justice Studies ADT is designed to

transfer into the CSU system, and can be used as the foundation for a Bachelor's Degree in the following areas: American Indian Studies, African American or Africana Studies, American Studies, Asian American Studies, Chicana and Chicano or Mexican American Studies, Comparative Ethnic Studies, Gender Studies, Women's Studies, Labor Studies, and some Sociology Programs. To earn the Associate in Arts in Social Justice for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate academic preparedness for transfer to a four-year college.
2. Examine and appraise the intersections of race, class, gender, religion and other cultural indicators in issues of social justice in the United States.
3. Compare and contrast the primary goals of social justice movements of the 20th century and evaluate correlations to contemporary social justice movements.

REQUIRED CORE COURSES		Units
AFRAM 1	Introduction to African American Studies, <i>or</i>	
AMIND 31	American Indian Culture, <i>or</i>	
ASAMER 15	Introduction to Asian-Americans, <i>or</i>	
CLS 11	Introduction to Chicano-Latino Studies .....	3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society .....	3
WSTS 10	Changing Roles of Women.....	3

Select three (3) courses from at least two of the following areas:

Area 1: History or Government		Units
AFRAM 4	Classical and Pre Colonial Africa .....	3
AFRAM 34	History of the American Civil Rights Movement ...	3
AMST 11	Law and Democracy .....	3
CLS 29	History Of Mexico, Colonial to Contemporary Period .....	3

Area 2: Arts and Humanities		Units
AFRAM 3	African-American Art.....	3
AFRAM 8	African-American Creative Workshop.....	3
AFRAM 15	African American Music .....	3
AMIND 35	American Indian Art .....	3
ASAMER 8	Chinese Culture .....	3
CLS 17A	Beginning Mexican Folk Dance.....	3.5
CLS 20	Chicano Art .....	3
CLS 21	Chicano Literature.....	3
CLS 22	Art of the Ancient Americas .....	3
CLS 27B	Advanced Mexican Folk Dance.....	3.5
WSTS 36	Women's Literature.....	3



Area 3: Social Science		Units
AMIND 31	American Indian Culture.....	3
AMIND 34	The American Indian in Contemporary Society.....	3
ASAMER 1	Indo-Chinese Americans .....	3
ASAMER 15	Introduction to Asian-Americans.....	3
CLS 12	Mexican American History .....	3
WSTS 47	Introduction to Lesbian and Gay Studies.....	3
Area 4: Major Preparation		Units
AFRAM 2	African American Cultural Adaptation.....	3
ASAMER 25	Asian American Social Issues .....	3
ASAMER 55	Introduction to Asian Art .....	3
CLS 13	Politics and the Chicano-Latino Community.....	3
CLS 14	Sociology of the Mexican American Community..	3
CLS/WSTS 24	La Chicana and Latina.....	3
Total		18-19

## DANCE – MAJOR #5390

The associate degree in dance provides a base of training in dance technique and practical experience in concert performance and production work as well as theoretical background in dance composition. Possible careers include choreographer+, dance director, dance historian+, dancer, dance teacher+, dance therapist+, fitness/aerobic instructor, movement notator, performer, reconstructor, and recreation leader.

Students considering transferring to a four-year institute as a dance major should contact that target institution for dance audition requirements.

*+Bachelor degree or higher required.*

### ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Perform dance in a public setting.
2. Describe characteristic elements and form of various dance and choreographic styles.

REQUIRED CORE COURSES	Units
DANCE 10B Pre-Intermediate Modern Dance Technique, <i>or</i>	
DANCE 28A Intermediate Modern Dance Technique .....	1-1.5
DANCE 12B Beginning Ballet Part 2, <i>or</i>	
DANCE 13A Intermediate Ballet Technique .....	1-1.5
DANCE 20A Beginning Modern Dance	
Composition .....	3
DANCE 30 Dance Appreciation .....	3
Select two of the following courses:	Units
DANCE 21 Fall Dance Concert 1 .....	2-4
DANCE 22 Spring Dance Concert 1 .....	2-4
DANCE 31 Fall Dance Concert 2.....	2-4
DANCE 32 Spring Dance Concert 2.....	2-4

Select at least six units from the following:

(courses used to satisfy the Required Core cannot be used to satisfy this block):

	Units	
DANCE 9 Dance Conditioning .....	1	
DANCE 13A Intermediate Ballet Technique.....	1.5	
DANCE 13B Pre-Advanced Ballet Technique.....	1.5	
DANCE 14 Beginning Jazz Dance Technique .....	1	
DANCE 15 Intermediate Jazz Dance Technique .....	1	
DANCE 16 Beginning Tap Dance .....	0.5	
DANCE 17B Beginning Intermediate Mexican Folk Dance ....	3.5	
DANCE 18 Intermediate Tap Dance .....	0.5	
DANCE 20B Intermediate Modern Dance Composition .....	3	
DANCE 27A Intermediate Mexican Folk Dance.....	3.5	
DANCE 28A Intermediate Modern Dance Technique .....	1.5	
TA 27B Introduction to Lighting Design.....	3	
TA 41 Beginning Acting.....	3	
TA 42 Beginning Acting for Theatre Majors.....	3	
Total		18-23

## DENTAL HYGIENE – MAJOR #4580

The Registered Dental Hygienist (RDH) provides dental health education, promotes and encourages the preventive aspects of dental care, exposes and processes dental x-rays, removes deposits and stains from teeth, administers local anesthesia, delivers nitrous oxide/oxygen analgesia, performs periodontal soft tissue curettage, and assumes responsibilities for preventive care in the dental office.

Completion of the Dental Hygiene Program leads to an Associate in Science degree. After completing the program and passing the National Board examination, passing a clinical dental hygiene examination, the graduates are eligible to apply for licensure as a Registered Dental Hygienist.

Dental hygiene students will be required, as part of the total dental hygiene program, to participate in service learning activities. These activities could include community dental health projects, hospital clinical practice, and other field excursions of educational value.

### Application Requirements

Enrollment is limited in the dental hygiene program. Minimum qualifications for selection must be met. There are no restrictions as to age, race, gender, or marital status. Minimum prerequisite requirements for application to the program are the following:

1. Have graduated from high school or have an average score of 45 on the General Educational Development (GED) test.
2. Have a minimum cumulative college grade point average (GPA) of 2.70.
3. Have completed Biology 20, Human Anatomy, and Biology 22, Human Physiology, (or equivalent), or Biology 21A and Biology 21B (or equivalent) each with a grade of "C" or better.

4. Have completed English 1A, Reading and Comprehension; Mathematics 103, Foundations of Algebra, or another more advanced math course; Chemistry 3A, Introduction to General Chemistry; Chemistry 3B, Organic and Biological Chemistry; Biology 31, Microbiology; Food and Nutrition 35 or 40, Nutrition and Health or Nutrition; Communication 1 or 2, Introduction to Speaking or Interpersonal Communication; Psychology 2, General Psychology; and Sociology 1A, Introduction to Sociology (or equivalents to these courses) with grades of "C" or better.
5. Have completed an Academic Summary Form for the Dental Hygiene Program.
6. Have no physical impairment that would preclude the performance of all dental hygiene duties.
7. Be in good physical and mental health.

#### ACADEMIC REQUIREMENTS

All program entry requirement courses listed above must be completed with a grade of "C" or better. In order to be eligible to take the licensure examinations, all other courses leading to the associate degree must also be completed with a grade of "C" or better.

Students in the dental hygiene program must earn a "C" grade or better in all dental hygiene courses. Less than a "C" in any dental hygiene course requires that the course be repeated before continuing with the major. Courses must be repeated in their entirety. Courses may be repeated once only.

Safe professional practice is necessary for retention of students in the program. If a student demonstrates that he/she is unsuited to the profession or is not progressing satisfactorily, based on the professional judgment of the faculty, he/she may be asked to withdraw from the program.

#### BACKGROUND CHECK

Upon entry into the program, students may be required to obtain a background check.

#### CHANGE OF NAME, ADDRESS, AND/OR TELEPHONE NUMBER

Applicants and dental hygiene students must keep the Dental Hygiene Office informed of any change in name, address, and/or telephone number. Failure of applicants to inform the Dental Hygiene Office of this vital information may result in loss of entry into the program. Dental hygiene students must have working e-mail addresses.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Graduate students with a high degree of competency and knowledge through a curriculum that integrates general education, biomedical sciences, dental sciences, and current dental hygiene theory, practice, and the provision of dental hygiene care for all populations.
2. Provide the highest quality of instruction and educational experience culminating in graduates prepared to take licensure examinations.
3. Provide employers with graduates who foster a commitment to scientific inquiry, community service, maintain standards of legal, ethical, and professional development.

#### FIRST YEAR

First Semester		Units
DH 1A	Oral Biology .....	2
DH 3A	Preclinical Dental Hygiene Techniques.....	6
DH 4	Oral Radiography .....	4
DH 10	Head & Neck Anatomy .....	2
Second Semester		Units
DH 1B	General and Oral Pathology.....	3
DH 2	Dental Materials .....	2
DH 5A	Clinical Dental Hygiene I.....	2.5
DH 6A	Medical Emergencies in the Dental Office .....	1
DH 8A	Patient Management.....	2
DH 11	Pain Management .....	4
DH 12	Clinical Seminar Topics I .....	2

#### SECOND YEAR

First Semester		Units
DH 1C	Periodontology.....	2
DH 5B	Clinical Dental Hygiene II.....	5
DH 6B	Pharmacology .....	2
DH 7A	Community Dental Health I .....	2
DH 13	Clinical Seminar Topics II .....	1
Second Semester		Units
DH 1D	Applied Specialties.....	1.5
DH 5C	Clinical Dental Hygiene III.....	5
DH 7B	Community Dental Health II .....	2
DH 8B	Practice & Financial Management.....	2
DH 9	Nutrition in Dentistry.....	1
DH 14	Clinical Seminar Topics III .....	1
Total		55

*Note: All application requirements, program requirements and selection criteria are subject to change. Students will enter the selection pool based on the current catalog or catalog supplement. Contact a Fresno City College health career counselor every semester for current information.*

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## DEVELOPMENTAL SERVICES

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### CAREER READINESS – MAJOR #7010

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The Career Readiness Certificate Program is designed to provide students with the opportunity to enhance their education while focusing on an environment which will encourage job awareness. This certificate will prepare students to enter the workforce through career exploration and planning, interview preparation, and communication and workplace skills development. This certificate will enhance employment awareness of each student.

**CERTIFICATE**

*Student Learning Outcomes:*

1. Describe potential employment opportunities based on their educational and vocational experiences.
2. Demonstrate basic skills and strategies needed to plan for a potential career, develop job search skills.
3. Demonstrate time management and organizational skills.

REQUIRED COURSES		Units
DEVSER 250	Career Awareness.....	4
DEVSER 252B	Communication Skills and Strategies 2.....	4
DEVSER 260	Job Search, Employment Portfolio, and Interview Development.....	3

ELECTIVES - Select 1 Course		Units
DEVSER 252A	Communication Skills and Strategies 1.....	4
DEVSER 262	Group Interaction .....	3
DEVSER 277	Beginning Computer Literacy.....	4
DEVSER 278	Basic Word Processing for Work.....	3
DEVSER 279	Basic Modified Computer Applications.....	3
DEVSER 285	Paragraphs to Essays.....	2.5
DEVSER 286	Essay Development and College Writing.....	2.5
Total		13.5-15

**EFFECTIVE COMMUNICATIONS – MAJOR #5434**

The Communication Skills Certificate Program offers an overview of the methods of communicating. It also trains students to use their communication skills effectively in various situations. This program is designed to enable students to achieve recognition of development in such areas as presentational speaking, problem solving and decision-making, and interpersonal communication. Students will have the knowledge and key skills to communicate effectively using simple, concise and direct language in order to achieve results in their communications with others. This certificate program allows individuals to develop the confidence and clarity in communication to support their career and educational growth.

**CERTIFICATE**

*Student Learning Outcomes:*

1. Demonstrate the ability to handle difficult situations with a flexible, genuine and self-confident approach.
2. Demonstrate key skills to communicate effectively using simple, concise, and direct language.
3. Demonstrate increased proficiency with the basics of appropriate communication skills.
4. Identify appropriate conflict-resolution skills.

REQUIRED COURSES		Units
DEVSER 252A	Communication Skills and Strategies 1.....	4
DEVSER 252B	Communication Skills and Strategies 2.....	4
DEVSER 262	Group Interaction .....	3

ELECTIVES - Select 1 Course		Units
DEVSER 278	Basic Word Processing for Work.....	3
DEVSER 284	Reading Comprehension 2.....	4
DEVSER 286	Essay Development and College Writing.....	2.5
Total		13.5-15

**HIGH TECH ADAPTIVE PROGRAM – MAJOR #7006**

High Tech Computer certificate program is designed to provide students with the educational and vocational opportunities and will also enhance prospects for gainful employment by developing computer skills using Adaptive Technology.

**CERTIFICATE**

*Student Learning Outcomes:*

1. Describe potential employment opportunities based on their educational and vocational experience.
2. Demonstrate basic Adaptive Computer Concepts.

REQUIRED COURSES		Units
DEVSER 262	Group Interaction .....	3
DEVSER 277	Beginning Computer Literacy.....	4
DEVSER 278	Basic Word Processing for Work.....	3
DEVSER 279	Basic Modified Computer Applications.....	3
Total		13

**ORNAMENTAL HORTICULTURE SKILLS –**

**FORMERLY ADAPTIVE ORNAMENTAL HORTICULTURE SKILLS – MAJOR #1061**

The Ornamental Horticulture Skills Certificate Program is designed to provide students with disabilities both educational and vocational opportunities. A certificate will not only validate participation in the program, but it will also enhance the opportunities to secure gainful employment.

**CERTIFICATE**

*Student Learning Outcomes:*

1. Discuss potential employment opportunities based on their educational and horticultural skills.

**FIRST YEAR**

First Semester		Units
DEVSER 262	Group Interaction .....	3
DEVSER 275	Horticulture Skills I .....	2
Second Semester		Units
DEVSER 276	Horticulture Skills II .....	2

**SECOND YEAR**

First Semester		Units
DEVSER 282	Greenhouse Workforce Prep.....	3
Second Semester		Units
DEVSER 282	Greenhouse Workforce Prep.....	3
Total		13

## SCHOOL TO WORK, CLERICAL – MAJOR #7004

The School to Work Clerical Certificate Program is designed to provide students with the opportunity to enhance their education while focusing on an environment which will encourage awareness in the clerical workforce as well as prepare students for mainstream computer classes. This certificate will validate the students' participation in the School to Work objectives at Fresno City College and enhances computer/clerical awareness of each student.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Describe potential employment opportunities based on their educational and vocational experiences.
2. Demonstrate basic computer literacy skills.

Select 4 Courses:	Units
DEVSER 262 Group Interaction .....	3
DEVSER 277 Beginning Computer Literacy.....	4
DEVSER 278 Basic Word Processing for Work.....	3
DEVSER 279 Basic Modified Computer Applications.....	3
DEVSER 283 Reading Comprehension 1.....	4
DEVSER 284 Reading Comprehension 2.....	4
DEVSER 285 Paragraphs to Essays.....	2.5
DEVSER 286 Essay Development and College Writing.....	2.5
DEVSER 291 Strategies for Academic Success .....	2
Total	10-15

## DRAFTING - SEE COMPUTER AIDED DRAFTING AND DESIGN EDUCATION

## ECONOMICS

### ECONOMICS FOR TRANSFER – MAJOR #2020

The Associate in Arts in Economics for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. This degree will acquaint students with the fundamentals of economic thinking and the principle concepts and theories of macroeconomics and microeconomics. Additionally, the degree will offer students the math and statistics preparation required for upper division coursework in economics. To earn the Associate in Arts in Economics for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

## ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Understand and apply basic economic methodology to describe, analyze and explain human behavior and societal challenges.
2. Apply principle microeconomic and macroeconomic concepts, theories and models to describe, analyze and explain relevant economic issues

REQUIRED COURSES	Units
ECON 40/40H Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics.....	3
ECON 50/50H Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics.....	3
MATH 5A Elementary Statistics .....	5
MATH 42 Statistics for the Behavioral Sciences, <i>or</i> MATH 11 Elementary Statistics, <i>or</i> DS 23 Business Statistics.....	3-4
Choose two of the following courses:	Units
ACCTG 4A Financial Accounting.....	4
ACCTG 4B Managerial Accounting .....	4
MATH 5B Mathematical Analysis II .....	4
MATH 6 Mathematical Analysis III .....	4
MATH 21 Finite Mathematics.....	3
MATH 26 Elementary Linear Algebra.....	3
Total	20-23

## EDUCATION

### EARLY CHILDHOOD PARAPROFESSIONAL

– MAJOR #5912

The Early Childhood Paraprofessional Certificate of Achievement prepares students to work as paraprofessionals in preschool through grade 12 (K-12) school settings. Completing the certificate satisfies the federal No Child Left Behind requirements for employment in a school districts and is the foundation for the Associate degrees for Transfer in Elementary Education or Early Childhood Education.

#### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Demonstrate introductory subject matter competency required for working in preschool to grade 12 school settings.
2. Demonstrate knowledge of social, cultural, environmental, and aesthetic perspectives necessary for working in preschool to grade 12 classrooms.
3. Discuss historical influences and current trends in education, as well as teaching strategies and approaches appropriate for students of diverse, needs, abilities and backgrounds.

Required 48-49 units from the following:		Units
ART 2	Art Appreciation, <i>or</i>	
MUS 12	Music Appreciation, <i>or</i>	
TA 30	Theatre Appreciation .....	3
ART 12A	Craft Workshop: Living Traditions, <i>or</i>	
COMM/TA 12	Fundamentals of Oral Interpretation, <i>or</i>	
MUS 3	Music Fundamentals.....	3
BIOL 3	Introduction to Life Science.....	4
CHDEV 1	Principles and Practices of Teaching Young Children .....	3
CHDEV 3	Introduction to Curriculum.....	3
CHDEV/EDUC 19	Work Experience (Cooperative), Occupational.....	1
CHDEV 30	Child, Family and Community.....	3
CHDEV 39	Child Growth and Development.....	3
CIT 12	Computer Literacy, <i>or</i>	
CIT 15	Computer Concepts .....	3
COMM 1	Introduction to Public Speaking .....	3
EDUC 30	Introduction to Teaching.....	3
ENGL 1A/1AH	Reading and Comprehension, <i>or</i> Honors Reading and Comprehension .....	4
GEOG 4A	World Geography .....	3
GEOG 4B	World Geography .....	3
HIST 11	History of the United States to 1877 .....	3
MATH 10A	Structure and Concepts in Mathematics I, <i>or</i>	
MATH 103	Foundations of Algebra.....	3-4

*No Child Left Behind legislation requires paraprofessionals to complete 48 units of college coursework or to pass an employer-administered exam.*

## ELEMENTARY TEACHER EDUCATION FOR TRANSFER – MAJOR #5920

The Associate in Arts in Elementary Teacher Education for Transfer Degree is designed for students planning to transfer to a four-year university ready to continue for a bachelor's degree in Liberal Studies and a preliminary Multiple Subject Elementary Teaching Credential. To earn the Associate in Arts in Elementary Education for Transfer degree, students must complete 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. California teaching credential requirements are subject to change; consult with a counselor each semester to ensure compliance with state regulations and transfer requirements.

## ASSOCIATE IN ARTS DEGREE

### *Student Learning Outcomes:*

1. Demonstrate introductory subject matter competency required for the teaching at the elementary school level.
2. Demonstrate knowledge of social, cultural, environmental, and aesthetic perspectives necessary for teaching at the elementary school level.
3. Discuss historical influence and current trends in education, as well as teaching strategies and approaches appropriate for students of diverse, needs, abilities and backgrounds.

### *PROGRAM REQUIREMENTS*

Required 47 units of core courses		Units
BIOL 3	Introduction to Life Science.....	4
CHDEV 39	Child Growth and Development.....	3
COMM 1	Introduction to Public Speaking .....	3
EDUC 19	Work Experience (Cooperative), Occupational.....	1
EDUC 30	Introduction to Teaching.....	3
ENGL 1A/1AH	Reading and Composition, <i>or</i> Honors Reading and Composition .....	4
ENGL 1B	Introduction to the Study of Literature .....	3
GEOG 4A	World Geography .....	3
GEOG 4B	World Geography .....	3
GEOL 9	Introduction to Earth Science .....	4
HIST 11	History of the United States to 1877 .....	3
HIST 20	World History I, to 1600.....	3
MATH 10A	Structure and Concepts in Mathematics I.....	3
NATSCI 1A	Integrated Science: Physics and Chemistry .....	4
POLSCI 2/2H	American Government, <i>or</i> Honors American Government .....	3

List A: Select 1 course from the following:		Units
ENGL 3/3H	Critical Reading & Writing, <i>or</i> Honors Critical Reading & Writing.....	3
PHIL 2/2H	Critical Reasoning and Analytic Writing, <i>or</i> Honors Critical Reasoning and Analytic Writing.....	3

List B: Select 1 course from the following:		Units
ART 2	Art Appreciation .....	3
ART 5/5H	Art History Ancient to Medieval, <i>or</i> Honors Art History Ancient to Medieval .....	3
ART 6/6H	Art History Renaissance to Modern, <i>or</i> Honors Art History Renaissance to Modern .....	3
MUS 12	Music Appreciation .....	3
TA 30	Theatre Appreciation .....	3

LIST C: Select 1 course from the following:	Units
AFRAM/ENGL 17 African-American Literature.....	3
ART 7 Beginning Drawing.....	3
ART 9 Beginning Painting: Oil/Acrylic.....	3
ART 10 Beginning Ceramics.....	3
ART 11 Beginning Sculpture.....	3
ART 12A Craft Workshop: Living Traditions.....	3
ART 15 Ceramic Sculpture.....	3
ART 17 Intermediate Drawing.....	3
ART/ASAMER 55 Introduction to Asian Art.....	3
CLS 21 Chicano Literature.....	3
COMM/TA 12 Fundamentals of Oral Interpretation.....	3
HIST 1 Western Civilization to 1648.....	3
MUS 3 Music Fundamentals.....	3
MUS 13 History of Music.....	3
Total	56

EDUC 19/19X	Work Experience (Cooperative), Occupational.....	1
EDUC 30	Survey of American Education.....	3
ENGL 1A/1AH	Reading and Comprehension, <i>or</i> Honors Reading and Comprehension.....	4
GEOG 4A	World Geography.....	3
GEOG 4B	World Geography.....	3
GEOL 9	Introduction to Earth Science.....	4
HIST 11	History of the United States to 1877.....	3
HIST 20	World History I, to 1600.....	3
MATH 10A	Structure and Concepts in Mathematics I, <i>or</i> MATH 103 Foundations of Algebra.....	3-4
Total		49-50

*Notes: No Child Left Behind legislation requires paraprofessionals to complete 48 units of college coursework or to pass an employer-administered exam.*

**EDUCATION PARAPROFESSIONAL - FORMERLY  
TEACHER AIDE: GENERAL – MAJOR #5911**

The Education Paraprofessional Certificate of Achievement prepares students to work as paraprofessionals in kindergarten through grade 12 (K-12) school settings. Completing the certificate satisfies the federal No Child Left Behind requirements for employment in a school districts and is the foundation for the Associate degree for Transfer in Elementary Education.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Demonstrate introductory subject matter competency required for working in the K-12 setting.
2. Demonstrate knowledge of social, cultural, environmental, and aesthetic perspectives necessary for working in the K-12 setting.
3. Discuss historical influences and current trends in education, as well as teaching strategies and approaches appropriate for students of diverse, needs, abilities and backgrounds

**PROGRAM REQUIREMENTS**

Required 49-50 units from the following:	Units
AFRAM/ENGL 17 African-American Literature, <i>or</i> CLS 21 Chicano Literature.....	3
ART 2 Art Appreciation, <i>or</i> MUS 12 Music Appreciation, <i>or</i> TA 30 Theatre Appreciation.....	3
ART 12A Craft Workshop: Living Traditions, <i>or</i> COMM/TA 12 Fundamentals of Oral Interpretation, <i>or</i> MUS 3 Music Fundamentals.....	3
BIOL 3 Introduction to Life Science.....	4
CHDEV 39 Child Growth and Development.....	3
CIT 12 Computer Literacy, <i>or</i> CIT 15 Computer Concepts.....	3
COMM 1 Introduction to Public Speaking.....	3

**SPECIAL EDUCATION PARAPROFESSIONAL  
– MAJOR #5913**

The Special Education Paraprofessional Certificate of Achievement prepares students to work as paraprofessionals in special education classrooms in kindergarten through grade 12 (K-12) school settings. Completing the certificate satisfies the federal No Child Left Behind requirements for employment in a school districts and is the foundation for the Associate degree for Transfer in Elementary Education.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Demonstrate introductory subject matter competency required for working in special education classrooms in kindergarten to grade 12 settings.
2. Demonstrate knowledge of social, cultural, environmental, and aesthetic perspectives necessary for working in special education classrooms in kindergarten to grade 12.
3. Discuss historical influences and current trends in education, as well as teaching strategies and approaches appropriate for students of diverse, needs, abilities and backgrounds.

**PROGRAM REQUIREMENTS**

Required 49-50 units from the following:	Units
ART 2 Art Appreciation, <i>or</i> MUS 12 Music Appreciation, <i>or</i> TA 30 Theatre Appreciation.....	3
ART 12A Craft Workshop: Living Traditions, <i>or</i> COMM/TA 12 Fundamentals of Oral Interpretation, <i>or</i> MUS 3 Music Fundamentals.....	3
BIOL 3 Introduction to Life Science.....	4
CHDEV 39 Child Growth and Development.....	3
CIT 12 Computer Literacy, <i>or</i> CIT 15 Computer Concepts.....	3
COMM 1 Introduction to Public Speaking.....	3
EDUC 6 Introduction to Special Education.....	3
EDUC 7 Exceptional Learners.....	3

EDUC 19/19X	Work Experience (Cooperative), Occupational .....	1
EDUC 30	Survey of American Education.....	3
ENGL 1A/1AH	Reading and Comprehension, <i>or</i> Honors Reading and Comprehension .....	4
GEOG 4A	World Geography .....	3
GEOG 4B	World Geography .....	3
GEOL 9	Introduction to Earth Science .....	4
HIST 11	History of the United States to 1877 .....	3
MATH 10A	Structure and Concepts in Mathematics I, <i>or</i>	
MATH 103	Foundations of Algebra .....	3-4

## ELECTRICAL SYSTEMS TECHNOLOGY

- FORMERLY ELECTRONIC TECHNOLOGY – MAJOR #8171

Electrical Systems Technology provides an opportunity for students to prepare for employment in the electronics/electrical industry. Specific occupational preparation is provided in the following program. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

### ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Define and apply various numbering systems (i.e. Binary, hexadecimal and Octal).
2. Develop a motor logic control solution using the defined parameters given.
3. Demonstrate a comprehension of the basic operation of communication systems for digital signals.
4. Design and configure a control application using a PLC and PLC software.
5. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.

REQUIRED CORE COURSES	Units	
AT 10	Technical Computer Applications .....	3
EST 50	Introduction to Electrical Systems Technology .....	2
EST 51	Direct Current Fund of Electronics .....	3
EST 52	Alternating Current Fundamentals.....	3
EST 53	Lab Safety Practices .....	2
EST 54	Integrated Devices .....	3
EST 96D	National Electrical Code-Electrical Safety.....	3

Select a minimum of thirty-three (33) additional units from the following list:

	Units	
EST 55A	Digital Concepts.....	3
EST 55B	Facility Automation .....	3
EST 55C	SCADA Systems.....	3
EST 56A	Wiring Methods .....	3
EST 56B	Motor Controls.....	3
EST 56C	Variable Frequency Drives & Motion Control .....	3
EST 57A	Analog Communications.....	3
EST 57B	Digital Communications.....	3
EST 57C	Voice and Data Cabling .....	3
EST 58	Programmable Logic Controllers .....	3
EST 59	Instrumentation Systems.....	3
EST 60	A+ PC Maintenance and Repair .....	3
EST 61	Networking Fundamentals.....	3
EST 62	Commercial & Industrial Networking .....	3
EST 80	Introduction to Photovoltaics .....	3
EST 81	Photovoltaic Systems.....	3
EST 82A	Introduction to Robotics .....	3.5
EST 82B	Robotic Applications .....	3.5
EST 83A	Robotics, Industrial – Introduction.....	3
EST 83B	Robotics, Industrial - Advanced Application.....	3
EST 84A	Introduction to Biomedical Electronics .....	3
EST 96A	National Electrical Code Part 1.....	3
EST 96B	National Electrical Code Part 2.....	3
EST 96C	National Electrical Code Part 3.....	3
	<b>Total</b>	<b>52</b>

## PHOTOVOLTAICS- FORMERLY ADVANCED PHOTOVOLTAIC TECHNICIAN – MAJOR #8196

The courses in the photovoltaics certificate prepare the student for employment in the photovoltaic industry for auditors, site surveyors, designers, and other advanced positions. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Given a customer's electrical usage, plan, design, document, and install various photovoltaic systems with all required hardware and electrical equipment to NEC and local/state requirements.

REQUIRED COURSES	Units	
EST 50	Introduction to Electrical Systems Technology .....	2
EST 55A	Digital Concepts.....	3
EST 56A	Wiring Methods .....	3
EST 57C	Voice and Data Cabling .....	3
EST 61	Networking Fundamentals.....	3
EST 81	Photovoltaic Systems.....	3
	<b>Total</b>	<b>17</b>

## BIOMEDICAL EQUIPMENT TECHNICIAN

- FORMERLY BIOMEDICAL TECH – MAJOR #6086

The biomedical technology program trains students to troubleshoot and repair electronics based biomedical instruments and equipment. Course topics highlight three (3) primary fields of study: Electronic Fundamentals, Human Anatomy and biomedical instrumentation. Students study electronics at the component level and human biological processes as building blocks for understanding biomedical instrumentation function, operation and troubleshooting. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Distinguish and list various medical imaging technologies.
2. Set up standard electrical measurement tools and differentiate the uses for calibration and troubleshooting of medical equipment.
3. Categorize biopotentials and electrodes as they relate to basic human anatomy and physiology systems.
4. Associate the applicable regulation with the regulating organizations.
5. Evaluate the data from basic preventive maintenance tests on the following equipment: multi-parameter physiological monitor, electrocardiogram (ECG) machine, blood pressure monitor, defibrillator, pulse oximeter, infusion pump, and electrosurgical unit.

REQUIRED CORE COURSES		Units
BIOL 5	Human Biology .....	4
EST 55A	Digital Concept .....	3
EST 57A	Analog Communications .....	3
EST 57B	Digital Communications.....	3
EST 57C	Voice and Data Cabling .....	3
EST 60	A+ PC Maintenance and Repair .....	3
EST 83A	Industrial Robotics- Introduction.....	3
EST 84A	Introduction to Biomedical Electronics.....	3
Total		25

## ELECTRICITY FUNDAMENTALS 1 – MAJOR #8191

This is an entry level certificate for students completing their first semester in the Electrical Systems Technology program. This certificate allows the student to show perspective employers their progress and begin looking for employment or internship opportunities.

## CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Correctly compare Direct Current electrical values (i.e. Voltage, Current, Resistance, etc) as well as perform a hands-on ability to correctly connect components, and test instruments for a circuit defined by the instructor.
2. Correctly compare Alternating Current electrical values (i.e. Voltage, Current, Resistance, etc) as well as perform a hands-on ability to correctly connect components, and test instruments for a circuit defined by the instructor.
3. Identify and apply the device connections of a solid state device.
4. Safely and appropriately use basic electrical hand tools.
5. Create and modify files using Microsoft Office programs.

### REQUIRED COURSES

	Units	
AT 10	Technical Computer Applications .....	3
EST 50	Introduction to Electrical Systems Technology .....	2
EST 51	Direct Current Fundamentals of Electronics .....	3
EST 52	Alternating Current Fundamentals.....	3
EST 53	Lab Safety Practices .....	2
EST 54	Integrated Devices.....	3
Total		16

## ELECTRICITY FUNDAMENTALS 2 – MAJOR #8192

This is a second level certificate for students completing their second semester in the Electrical Systems Technology program. This certificate allows the student to show perspective employers their progress and begin looking for employment or internship opportunities. The student is advised to complete the Electricity Fundamentals 1 certificate prior.

### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Safely apply correct wiring method techniques used in residential, commercial, and industrial applications to the National Electrical Code or authority having jurisdiction specifications.
2. Identify electrical safety hazards.
3. Apply engineering and national electrical code standards for electrical branch circuit systems, and for electrical over-current protection systems.

### REQUIRED EMPHASIS COURSES

	Units	
EST 56A	Wiring Methods .....	3
EST 61	Networking Fundamentals.....	3
EST 96D	National Electrical Code-Electrical Safety.....	3
Choose 2 National Electrical Code Courses (6 units)		Units
EST 96A	National Electrical Code Part 1.....	3
EST 96B	National Electrical Code Part 2.....	3
EST 96C	National Electrical Code Part 3.....	3
Total		15



**ELECTROMECHANICAL 1 – MAJOR #8193**

This is an entry level certificate in Electromechanical in the Electrical Systems Technology program. This certificate allows the student to show perspective employers their progress and gain entry level employment or an internship in the Industrial Electromechanical field. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Correctly measure machine parts with precision and non-precision tools.
2. Perform basic set ups on a drill press, milling machines or engine lathes.
3. After completing a lab weld, students will be able to identify common defects or discontinuities in their flat or horizontal welds.
4. Correctly design wiring diagrams, and line diagrams needed to deploy various motor control situations.

REQUIRED CORE COURSES		Units
AT 140	Introduction to Machine Shop .....	3
AT 150	Pneumatic & Hydraulic Systems .....	3
EST 56B	Motor Controls.....	3
EST 61	Networking Fundamentals.....	3
WELD 2A	Introduction to Welding Technology.....	6
Total		18

**ELECTROMECHANICAL 2 – MAJOR #8194**

This is an advanced Electromechanical certificate in the Electrical Systems Technology program. This certificate allows the student to show perspective employers their progress and gain advanced employment or an internship in the Industrial Electromechanical field. The student is advised to complete the Electromechanical 1 certificate prior.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Write a program in ladder logic, transfer the program to a programmable logic controller, and operate the control system.
2. Read and interpret a Process & Instrumentation Diagram (P&ID).
3. Correctly operate a robot manually and automatically, from a given point A to point B.
4. Describe the different types of collaborative operations, and which types of robots can be used in each type of operation.
5. Distinguish between the variables used to measure linear speed and rotational speed and apply these variables in determining mechanical drive specifications.

REQUIRED CORE COURSES		Units
AT 160	Mechanical Power Drive Systems .....	3
EST 56C	Variable Frequency Drives & Motion Control .....	3
EST 58	Programmable Logic Controllers .....	3
EST 59	Instrumentation Systems.....	3
EST 83A	Robotics, Industrial – Introduction.....	3
EST 83B	Robotics, Industrial - Advanced Application.....	3
Total		18

**FACILITY CONTROLS - FORMERLY FACILITY CONTROL TECHNICIAN AND AUTOMATION CONTROL TECHNICIAN – MAJOR #8189**

Training is designed to prepare the student for employment as a building automation technician. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Develop and implement a strategy utilizing HVAC controls.
2. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.
3. Design and implement a security strategy utilizing door access controls.

FACILITY CONTROLS REQUIRED COURSES		Units
EST 55A	Digital Concepts.....	3
EST 55B	Facility Automation .....	3
EST 57C	Voice and Data Cabling .....	3
EST 59	Instrumentation Systems .....	3
EST 61	Networking Fundamentals.....	3
EST 62	Commercial & Industrial Networking .....	3
Total		18

**LOW VOLTAGE - FORMERLY COMMUNICATION TECHNICIAN AND COMMUNICATIONS TECHNOLOGY – MAJOR #8187**

Training is designed to prepare the student for employment as a communication technician. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Design and implement various communication strategies that use radios to allow industrial controllers to communicate and share data.
2. Construct and analyze electronic circuits relating to digital to analog converters, analog to digital converters and time division multiplexing.
3. Design and implement a network topology for a solution to a proposed communication problem.

LOW VOLTAGE REQUIRED COURSES		Units
EST 50	Introduction to Electrical Systems Technology .....	2
EST 57A	Analog Communications.....	3
EST 57B	Digital Communications.....	3
EST 57C	Voice and Data Cabling .....	3
EST 60	A+ PC Maintenance and Repair .....	3
EST 61	Networking Fundamentals.....	3
Total		17

## INDUSTRIAL AUTOMATION 1 - FORMERLY INDUSTRIAL CONTROL TECHNICIAN AND CONTROL SYSTEMS – MAJOR #8188

Training in this specialized field is designed to prepare the student for employment as a control and instrument technician. The student is advised to complete the Electricity Fundamentals 2 certificate prior.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Create a digital logic circuit using appropriate logic gates.
2. Define and apply formulas (Ohm's and Kirchoff's Laws) for electrical circuit solutions.
3. Contrast the different parts of a Supervisory Control and Data Acquisition System (SCADA).
4. Understand the purpose, functions, and operations of a PLC.
5. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.

REQUIRED COURSES	Units
EST 50 Introduction to Electrical Systems Technology .....	2
EST 55C SCADA Systems.....	2
EST 56B Motor Controls.....	3
EST 57C Voice and Data Cabling.....	3
EST 58 Programmable Logic Controllers .....	3
EST 59 Instrumentation Systems.....	3
Total	17

## INDUSTRIAL AUTOMATION 2 – MAJOR #8195

This is an advanced Industrial Automation certificate in the Electrical Systems Technology program. This certificate allows the student to show perspective employers their progress and gain advanced employment or an internship in the Industrial Automation field. The student is advised to complete the Industrial Automation 1 certificate prior.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Program an electronic motor controller (VFD) for motor speed control.
2. Demonstrate the correct procedure for connecting computers and network devices.
3. Correctly operate a robot manually and automatically, from a given point A to point B.
4. Describe the different types of collaborative operations, and which types of robots can be used in each type of operation.

REQUIRED COURSES	Units
EST 56C Variable Frequency Drives & Motion Control.....	3
EST 61 Networking Fundamentals.....	3
EST 83A Robotics, Industrial - Introduction.....	3
EST 83B Robotics, Industrial - Advanced Application.....	3
Total	12

## INDUSTRIAL MAINTENANCE TECHNICIAN

### – MAJOR #8190

An industrial maintenance technician performs installation, repair and maintenance of commercial or industrial machinery in buildings, plants or factory setting, to ensure the machines' proper functionality.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Perform basic setups on the drill press, milling machines or engine lathes in a safe manner and to industry practices.
2. Demonstrate the ability to inspect fluid and pneumatic system components for proper operation and identify problems and the means to correct.
3. Given a SMAW and GMAW power source, students will be able to properly set up and adjust the machine to make a successful weld.

### REQUIRED COURSES

REQUIRED COURSES	Units
AT 19 Work Experience (Cooperative), Occupational .....	3
AT 140 Introduction to Machine Shop.....	3
AT 150 Pneumatic & Hydraulic Systems .....	3
AT 160 Mechanical Power Drive Systems .....	3
EST 51 Direct Current Fund of Electronics .....	3
EST 53 Lab Safety Practices .....	2
EST 56B Motor Controls.....	3
EST 58 Programmable Logic Controllers .....	3
WELD 2A Introduction to Welding Technology.....	6
Total	29

## INTRODUCTION TO INDUSTRIAL CONTROLS

### – MAJOR #8185

This option is to prepare students for the Industrial Controls Certificate. By completing this option, a student will have the training that emphasizes industrial control systems.

### CERTIFICATE

#### *Student Learning Outcomes:*

1. Define and apply digital numbering systems (i.e. Binary, Hexadecimal and Octal).
2. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.
3. Write programs in ladder logic, load and troubleshoot the programs, and operate the system.

### REQUIRED CORE COURSES

REQUIRED CORE COURSES	Units
EST 50 Introduction to Electrical Systems Technology, <i>or</i> .....	2
MMCTC 372 Electrical Fundamentals .....	0
EST 55A Digital Concepts.....	3
EST 56B Motor Controls.....	3
EST 58 Programmable Logic Controllers .....	3
EST 59 Instrumentation Systems.....	3
Total	12-14

## ENGINEERING

### ENGINEERING: CIVIL – MAJOR #3011

This degree program is designed as basic coursework necessary for pursuing a career in the field of civil engineering. Students will be prepared for engineering internship opportunities and transferring into four-year engineering programs.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
5. An ability to function effectively as a member or leader on a technical team.

REQUIRED CORE COURSES		Units
ENGR 5	Programming and Problem Solving in MATLAB .....	3
ENGR 10	Introduction to Engineering .....	2
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
Civil Track: Select a minimum of 4 courses		Units
CHEM 1A	General Chemistry.....	5
ENGR 1A	Elementary Plane Surveying 1 .....	4
ENGR 2	Graphics.....	4
ENGR 4	Engineering Materials .....	3
ENGR 8	Statics .....	3
MATH 7	Introduction to Differential Equations .....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
Total		40-43

### ENGINEERING: CIVIL – MAJOR #3011

This certificate of achievement is designed as basic coursework necessary for pursuing a career in the field of civil engineering.

#### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
5. An ability to function effectively as a member or leader on a technical team.

#### REQUIRED CORE COURSES

	Units	
ENGR 5	Programming and Problem Solving in MATLAB .....	3
ENGR 10	Introduction to Engineering .....	2
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
Civil Track: Select a minimum of 4 courses		Units
CHEM 1A	General Chemistry.....	5
ENGR 1A	Elementary Plane Surveying 1 .....	4
ENGR 2	Graphics.....	4
ENGR 4	Engineering Materials .....	3
ENGR 8	Statics .....	3
MATH 7	Introduction to Differential Equations .....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
Total		40-43

## ENGINEERING: COMPUTER, SOFTWARE

– MAJOR #3012

This degree program is designed as basic coursework necessary for pursuing a career in the field of computer or software engineering. Students will be prepared for engineering internship opportunities and transferring to four-year engineering programs.

## ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
5. An ability to function effectively as a member or leader on a technical team.

REQUIRED CORE COURSES	Units
ENGR 5      Programming and Problem Solving in MATLAB .....	3
ENGR 10     Introduction to Engineering .....	2
MATH 5A     Mathematical Analysis I .....	5
MATH 5B     Mathematical Analysis II .....	4
MATH 6      Mathematical Analysis III .....	4
PHYS 4A     Physics for Scientists and Engineers.....	4
PHYS 4B     Physics for Scientists and Engineers.....	4
Computer, Software Track:	
Select a minimum of 4 courses	Units
CSCI 40     Programming Concepts & Methodology I.....	4
CSCI 41     Programming Concepts & Methodology II.....	4
ENGR 6      Circuits with Lab .....	4
ENGR 12     Digital Logic Design.....	4
MATH 7      Introduction to Differential Equations .....	4
PHYS 4C     Physics for Scientists and Engineers.....	4
Total	42

## ENGINEERING: COMPUTER, SOFTWARE

– MAJOR #3012

This certificate of achievement is designed as basic coursework necessary for pursuing a career in the field of computer and software engineering.

## CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes
5. An ability to function effectively as a member or leader on a technical team.

REQUIRED CORE COURSES	Units
ENGR 5      Programming and Problem Solving in MATLAB .....	3
ENGR 10     Introduction to Engineering .....	2
MATH 5A     Mathematical Analysis I .....	5
MATH 5B     Mathematical Analysis II .....	4
MATH 6      Mathematical Analysis III .....	4
PHYS 4A     Physics for Scientists and Engineers.....	4
PHYS 4B     Physics for Scientists and Engineers.....	4
Computer, Software Track:	
Select a minimum of 4 courses	Units
CSCI 40     Programming Concepts & Methodology I.....	4
CSCI 41     Programming Concepts & Methodology II.....	4
ENGR 6      Circuits with Lab .....	4
ENGR 12     Digital Logic Design.....	4
MATH 7      Introduction to Differential Equations .....	4
PHYS 4C     Physics for Scientists and Engineers.....	4
Total	42

**ENGINEERING: ELECTRICAL – MAJOR #3013**

This degree program is designed as basic coursework necessary for pursuing a career in the field of electrical engineering. Students will be prepared for engineering internship opportunities and transferring to four-year engineering programs.

**ASSOCIATE IN SCIENCE DEGREE***Student Learning Outcomes:*

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
5. An ability to function effectively as a member or leader on a technical team.

REQUIRED CORE COURSES		Units
ENGR 5	Programming and Problem Solving in MATLAB .....	3
ENGR 10	Introduction to Engineering .....	2
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
Electrical Track: Select a minimum of 4 courses		Units
CHEM 1A	General Chemistry.....	5
CSCI 40	Programming Concepts & Methodology I, <i>or</i>	
MATH 7	Introduction to Differential Equations .....	4
ENGR 6	Circuits with Lab .....	4
ENGR 12	Digital Logic Design.....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
Total		42-43

**ENGINEERING: ELECTRICAL – MAJOR #3013**

This certificate of achievement is designed as basic coursework necessary for pursuing a career in the field of electrical engineering.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
5. An ability to function effectively as a member or leader on a technical team.

REQUIRED CORE COURSES		Units
ENGR 5	Programming and Problem Solving in MATLAB .....	3
ENGR 10	Introduction to Engineering .....	2
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
Electrical Track: Select a minimum of 4 courses		Units
CHEM 1A	General Chemistry.....	5
CSCI 40	Programming Concepts & Methodology I, <i>or</i>	
MATH 7	Introduction to Differential Equations .....	4
ENGR 6	Circuits with Lab .....	4
ENGR 12	Digital Logic Design.....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
Total		42-43

## ENGINEERING: MECHANICAL, AEROSPACE, AND MANUFACTURING – MAJOR #3014

This degree program is designed as basic coursework necessary for pursuing a career in the field of mechanical, aerospace, or manufacturing engineering. Students will be prepared for engineering internship opportunities and transferring into four-year engineering programs.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
5. An ability to function effectively as a member or leader on a technical team.

REQUIRED CORE COURSES		Units
ENGR 5	Programming and Problem Solving in MATLAB .....	3
ENGR 10	Introduction to Engineering .....	2
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
Mechanical, Aerospace, and Manufacturing Track:		
Select a minimum of 4 courses		Units
CHEM 1A	General Chemistry.....	5
ENGR 2	Graphics.....	4
ENGR 4	Engineering Materials .....	3
ENGR 6	Circuits with Lab .....	4
ENGR 8	Statics .....	3
ENGR 11	Manufacturing Processes.....	3
MATH 7	Introduction to Differential Equations .....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
Total		39-43

## ENGINEERING: MECHANICAL, AEROSPACE, AND MANUFACTURING – MAJOR #3014

This certificate of achievement is designed as basic coursework necessary for pursuing a career in the field of mechanical, aerospace, and manufacturing engineering.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
5. An ability to function effectively as a member or leader on a technical team.

REQUIRED CORE COURSES		Units
ENGR 5	Programming and Problem Solving in MATLAB .....	3
ENGR 10	Introduction to Engineering.....	2
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
Mechanical, Aerospace, and Manufacturing Track:		
Select a minimum of 4 courses		Units
CHEM 1A	General Chemistry.....	5
ENGR 2	Graphics.....	4
ENGR 4	Engineering Materials .....	3
ENGR 6	Circuits with Lab .....	4
ENGR 8	Statics .....	3
ENGR 11	Manufacturing Processes.....	3
MATH 7	Introduction to Differential Equations .....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
Total		39-43

## ENGLISH FOR TRANSFER – MAJOR #5305

The Associate in Arts in English for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. A degree in English is considered a rigorous, complementary education for careers in the legal field, editing, interpreting, translation, and teaching at the K-12 and college levels. To earn the Associate in Arts in English for Transfer degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN ARTS DEGREE

#### Student Learning Outcomes:

1. Read and critically evaluate college-level material from various sources through analysis and synthesis of information.
2. Write appropriately documented argumentative essays and research papers to deal with the ideas by definition, evaluation, interpretation, and persuasion.
3. Analyze and respond in writing to a variety of literature, including short fiction, poetry, drama, novels, and other genres, concerning thematic, rhetorical, and symbolic elements.
4. Write about and analyze the various literary elements such as plot, characterization, setting, voice, meter and tragedy in selected works.
5. Demonstrate an understanding of the importance of the assigned works to various time periods and cultures, and to literary tradition.

### MAJOR CORE

English 1A/1AH is a prerequisite to major core courses; it also meets writing/reading competency and general education area D1.

MAJOR CORE		Units
ENGL 1B	Introduction to the Study of Literature .....	3
ENGL 3	Critical Reading and Writing .....	3



### MAJOR COURSE OPTIONS - SECTION A

Select one of the course sequences (6 units total) from the following list:

ENGL 44A	World Literature to the Renaissance, <i>and</i>	
ENGL 44B	World Literature since the Renaissance, <i>or</i>	
ENGL 46A	English Literature to 1800, <i>and</i>	
ENGL 46B	English Literature from 1800 to the Present, <i>or</i>	
ENGL 48A	Introduction to American Literature to 1865, <i>and</i>	
ENGL 48B	Introduction to American Literature 1865 to the Present .....	6

### MAJOR COURSE OPTIONS - SECTION B

Units

Select either six (6) from Section B, or three (3) units from Section B and three (3) units from Section C (Courses taken to meet Section A above cannot be used to fulfill Section B):

ENGL 14	Folklore .....	3
ENGL 15A	Creative Writing: Poetry .....	3
ENGL 15B	Creative Writing: Fiction .....	3
ENGL/TA15C	Creative Writing: Playwriting .....	3
ENGL/AFRAM 17	African American Literature .....	3
ENGL 20	Asian American Literature .....	3
ENGL/HUM 42	Classic Myths .....	3
ENGL 44A	World Literature to the Renaissance .....	3
ENGL 44B	World Literature since the Renaissance .....	3
ENGL 45	Contemporary World Literature .....	3
ENGL 46A	English Literature to 1800 .....	3
ENGL 46B	English Literature from 1800 to the Present .....	3
ENGL 48A	Introduction to American Literature to 1865 .....	3
ENGL 48B	Introduction to American Literature 1865 to the Present .....	3
LING 10	Introduction to Language .....	3
<b>SECTION C</b>		<b>Units</b>
ENGL 12	The Bible as Literature .....	3
ENGL 15D	Creative Writing: Creative Nonfiction .....	3
ENGL/WSTS 36	Women's Literature .....	3
ENGL 40	Themes in Literature .....	3
ENGL 47	Introduction to Shakespeare .....	3
<b>Total</b>		<b>18</b>

## FASHION MERCHANDISING MARKETING/ HOME ECONOMICS

- SEE MARKETING

## FIRE TECHNOLOGY

### BASIC FIRE ACADEMY – MAJOR #883B

The Basic Fire Academy program offers curriculum to prepare students with the knowledge and skills necessary to become a State of California Certified Firefighter 1. Employment opportunities are found in various branches of government and the private sector.

The academy is offered in two different formats; an intensive 40 hours per week program or an extended 24 hours per week night program.

#### CERTIFICATE OF ACHIEVEMENT

#### PROGRAM REQUIREMENTS

To qualify for the program, applicants must:

- A. Be 18 years of age or have a high school diploma or G.E.D.
- B. Applicant with prior college work must be on good academic and progress standing on all college work attempted.
- C. Have successfully completed minimum of Public Safety First Aid and CPR (CA Health and Safety Code 1797.182).
- D. Possess a valid California driver's license.
- E. Provide proof of a clear physical examination including an electrocardiogram printout (EKG).
- F. Contact the Fire Academy Coordinator.

#### Student Learning Outcomes:

1. Demonstrate specific skills, knowledge and abilities in routine and emergency firefighting operations.
2. Manipulate, inspect, and maintain firefighting and rescue equipment.
3. Display the personal and professional attitude and discipline necessary for employment in the firefighting profession.

REQUIRED COURSES	Units
FIRET 22A Firefighter II Part A .....	2
FIRET 22B Firefighter II Part B .....	3
FIRET 130A Basic Fire Academy – Part 1 .....	14.5
FIRET 130B Basic Fire Academy – Part 2 .....	14.5
Total	34

### FIRE TECHNOLOGY – MAJOR #883A

This program is designed to provide the student with updated skills and knowledge necessary to complete and successfully apply for fire service careers. The curriculum serves as an in-service program as well as a pre-employment program for students seeking employment or advancement in the profession of fire fighting and fire technology.

## ASSOCIATE IN SCIENCE DEGREE

#### Student Learning Outcomes:

1. Given a typical type of fire department, describe the organizational structure and all of the staff functions within it.
2. Given a specific function of the fire service, describe the purpose of a paid and volunteer firefighter.

REQUIRED CORE COURSES	Units
FIRET 1 Fire Protection Organization .....	3
FIRET 2 Fire Prevention Technology .....	3
FIRET 3 Fire Protection Equipment and Systems .....	3
FIRET 4 Building Construction for Fire Protection .....	3
FIRET 5 Fire Behavior and Combustion .....	3
FIRET 14 Principles of Fire & Emergency Services Safety & Survival .....	3
COURSE OPTIONS: Select Two Courses	Units
FIRET 8 Fire Hydraulics .....	3
FIRET 9 Fire Fighting Practices .....	3
FIRET 22A Firefighter II Part A .....	2
FIRET 22B Firefighter II Part B .....	3
*FIRET 130A Basic Fire Academy - Part 1 .....	6
*FIRET 130B Basic Fire Academy – Part 2 .....	6
FIRET 131 Emergency Medical Technician 1 .....	9.5
Total	23-33.5

\* FIRET 130A and 130B each carries a value of up to 14.5 units; however, only 6 units can be applied to the associate in science degree and certificate of achievement.

Note: The associate degree additionally requires completion of the requirements listed in the Graduation Requirements section of this catalog.

### FIRE TECHNOLOGY - MAJOR #883A

This program is designed to provide the student with updated skills and knowledge necessary to complete and successfully apply for fire service careers. The curriculum serves as an in-service program as well as a pre-employment program for students seeking employment or advancement in the profession of fire fighting and fire technology.

#### CERTIFICATE OF ACHIEVEMENT

#### Student Learning Outcomes:

1. Given a typical type of fire department, describe the organizational structure and all of the staff functions within it.
2. Given a specific function of the fire service, describe the purpose of a paid and volunteer firefighter.

REQUIRED CORE COURSES	Units
FIRET 1 Fire Protection Organization .....	3
FIRET 2 Fire Prevention Technology .....	3
FIRET 3 Fire Protection Equipment and Systems .....	3
FIRET 4 Building Construction for Fire Protection .....	3
FIRET 5 Fire Behavior and Combustion .....	3
FIRET 14 Principles of Fire & Emergency Services Safety & Survival .....	3



COURSE OPTIONS: Select Two Courses		Units
FIRET 8	Fire Hydraulics .....	3
FIRET 9	Fire Fighting Practices .....	3
FIRET 22A	Firefighter II Part A .....	2
FIRET 22B	Firefighter II Part B .....	3
*FIRET 130A	Basic Fire Academy - Part 1 .....	6
*FIRET 130B	Basic Fire Academy - Part 2 .....	6
FIRET 131	Emergency Medical Technician 1 .....	9.5
Total		23-33.5

\*FIRET 130A and 130B each carries a value of up to 14.5 units; however, only 6 units can be applied to the certificate of achievement.

### FIREFIGHTER II – MAJOR #8835

Provides the skills and knowledge needed for the entry level professional fire fighter to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications. The five overarching themes of the California State Fire Fighter II curriculum are: general knowledge germane to the profession, fire department communications, fireground operations, rescue operations, and prevention, preparedness, and maintenance.

#### CERTIFICATE

##### *Student Learning Outcome:*

1. Identify proper equipment necessary to mitigate incident presented during a scenario simulation.
2. Initiate proper communication process during routine and emergency situations.
3. Perform proper rescue techniques removing victims in emergency simulations.

REQUIRED COURSES		Units
FIRET 22A	Firefighter II Part A .....	2
FIRET 22B	Firefighter II Part B .....	3
Total		5

### EMERGENCY MEDICAL TECHNICIAN 1

– MAJOR #8842

Designed to prepare personnel in the fire, life safety and related fields to render care to the ill and injured in the prehospital environment, in accordance with all federal, state and local Emergency Medical Services authorities.

#### CERTIFICATE

##### *Student Learning Outcome:*

1. Be eligible to take the National Registered Emergency Medical Technical (NREMT)/California State certification examination.

REQUIRED COURSE		Units
FIRET 131	Emergency Medical Technician I .....	9.5

### EMERGENCY MEDICAL TECHNICIAN 1 REFRESHER – MAJOR #8843

Designed for the student needing to complete the “continuing education” (CE) requirements necessary to maintain their EMT-B certification status.

#### CERTIFICATE

##### *Student Learning Outcome:*

1. Upon successful completion of the program the student will have satisfied all the required, Continuing Education (CE) hours for Emergency Medical Technician-B recertification.

REQUIRED COURSE		Units
FIRET 261	Emergency Medical Technician I Refresher .....	1

### PREHOSPITAL PARAMEDIC CARE – MAJOR #8845

Designed to prepare personnel in the fire, life safety and related fields to render advanced emergency medical care to the ill and injured in the pre-hospital environment, in accordance with all federal, state and local emergency medical services authorities.

#### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcome:*

1. Upon successful completion of the program, the student will be eligible to take the National Registered Emergency Medical Technician (NREMT)/California State licensure examination necessary to become a licensed paramedic.

REQUIRED COURSES		Units
FIRET 131	Emergency Medical Technician I .....	9.5
FIRET 133	Emergency Medical Technician - Didactic .....	21.5
FIRET 136	Emergency Medical Technician-Paramedic Clinical and Field Work .....	13
Total		44



## FOOD AND NUTRITION – MAJOR #5682

This degree is designed to prepare students for entry level employment in nutrition programs or food service. This degree prepares students for transfer to four year college in dietetics or culinology.

### ASSOCIATE IN SCIENCE DEGREE

#### Student Learning Outcomes:

1. Identify the causes of food borne illness and the practices to prevent food borne illness in a food service system.
2. Identify and compare preparation methods to optimize nutritional content.
3. Evaluate the nutritional content of foods and menus.

REQUIRED CORE COURSES		Units
CIT 15	Computer Concepts .....	3
FN 1	Principles of Food Preparation .....	3
FN 40	Nutrition .....	3
FN 45	Therapeutic Diets .....	3
FSM 11	Food Service Supervision .....	2
FSM 15	Food Production Management .....	2
FSM 19	Work Experience (Cooperative), Occupational .....	1-4
FSM 35	Food Services, Sanitation, Safety and Equipment .....	2

ELECTIVES: Select 18 Units		Units
BIOL 11A	Biology for Science Majors I .....	5
BIOL 22	Human Physiology .....	5
BIOL 31	Microbiology .....	5
CHEM 3A	Introductory General Chemistry .....	4
FN 41	Sports Nutrition .....	2
FN 42	Child Nutrition .....	3
FN 43	Women's Nutrition .....	2
FSM 25	Food and Beverage Purchase and Control .....	2
FSM 38	Quantity Food Preparation .....	3
Total		37-40

*Note: AS degree: The Food and Nutrition major consists of 37-40 units as indicated above. Students must complete the Food and Nutrition major and associate degree requirements listed on page 37. General Education requirements for transfer certification are on page 36.*

## FOOD AND NUTRITION – MAJOR #5682

This certificate of achievement is designed to prepare students for entry level employment in nutrition programs or food service. This certificate prepares students for transfer to four year college in dietetics or culinology.

## CERTIFICATE OF ACHIEVEMENT

#### Student Learning Outcomes:

1. Identify the causes of food borne illness and the practices to prevent food borne illness in a food service system.
2. Identify and compare preparation methods to optimize nutritional content.
3. Evaluate the nutritional content of foods and menus.

REQUIRED CORE COURSES		Units
CIT 15	Computer Concepts .....	3
FN 1	Principles of Food Preparation .....	3
FN 40	Nutrition .....	3
FN 45	Therapeutic Diets .....	3
FSM 11	Food Service Supervision .....	2
FSM 15	Food Production Management .....	2
FSM 19	Work Experience (Cooperative), Occupational .....	1-4
FSM 35	Food Services, Sanitation, Safety and Equipment .....	2

ELECTIVES: Select 18 Units		Units
BIOL 11A	Biology for Science Majors I .....	5
BIOL 22	Human Physiology .....	5
BIOL 31	Microbiology .....	5
CHEM 3A	Introductory General Chemistry .....	4
FN 41	Sports Nutrition .....	2
FN 42	Child Nutrition .....	3
FN 43	Women's Nutrition .....	2
FSM 25	Food and Beverage Purchase and Control .....	2
FSM 38	Quantity Food Preparation .....	3
Total		37-40

## DIETARY AIDE – MAJOR #5750

This certificate is designed to prepare students for employment as a dietary aide in acute care, convalescent hospitals and residence care facilities.

### CERTIFICATE

#### Student Learning Outcomes:

1. Identify the causes of food borne illness and the practices to prevent food borne illness in a food service system.
2. With the guidance of a registered dietitian, ensure that the nutritional needs of the clients of a health care facility will be met.

REQUIRED COURSES		Units
FN 40	Nutrition .....	3
FN 45	Therapeutic Diets .....	3
FSM 19	Work Experience (Cooperative), Occupational .....	1
FSM 35	Food Services, Sanitation, Safety and Equipment .....	2
Total		9

**DIETARY SERVICE SUPERVISOR - MAJOR #5681**

The certificate of achievement prepares students for employment in a food service department within health care facilities such as hospitals, skilled nursing, assisted living or adult day care centers. This program meets the California Department of Public Health requirements for certification/approval.

Course grades are earned through the development of competencies needed for successful employment as a Dietary Service Supervisor.

Consult with a member of the Food and Nutrition program staff before scheduling courses in the program. The student will be registered in the program and a program of study, including appropriate field experience, will be planned.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcome:*

- The students will be able to apply the state and federal regulations that govern the operation of a food service department in a long term health care facility.

REQUIRED CORE COURSES		Units
FN 1	Principles of Food Preparation.....	3
FN 40	Nutrition.....	3
FN 45	Therapeutic Diets.....	3
FSM 11	Food Service Supervision.....	2
FSM 19 *	Work Experience (Cooperative), Occupational.....	3
FSM 35	Food Services, Sanitation, Safety and Equipment.....	2
FSM 38	Quantity Food Preparation.....	3
Total		19

\* One unit of FSM 19 can either be 75 hours paid or 60 hours volunteer. Two units of FSM 19 must be 120 hours volunteer.

**Articulation of the Dietetics and Food Administration Major with CSUF**

Fresno City College students planning to transfer to California State University, Fresno, into a Dietetics or Food Services major approved by the American Dietetics Association should take the following lower division courses before transferring to CSU, Fresno.

COURSES		Units
*BIOL 20	Human Anatomy.....	4
BIOL 22	Human Physiology.....	5
BIOL 31	Microbiology.....	5
CHEM 3A	Introductory General Chemistry.....	4
CHEM 8A	Elementary Organic Chemistry.....	3
FN 40	Nutrition.....	3
FN 1	Principles of Food Preparation.....	3
FSM 35	Food Services, Sanitation, Safety and Equipment.....	2
MATH 11	Elementary Statistics.....	4
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3

\* Prerequisite to required course(s).

**NUTRITION AND DIETETICS FOR TRANSFER**

– MAJOR #5683

The Associate in Science in Nutrition and Dietetics for Transfer is designed for students who plan to transfer to a CSU campus to complete a bachelor's degree in nutrition and dietetics. To earn the Associate in Science in Nutrition and Dietetics for Transfer degree, students must complete 60 units that are eligible for transfer to the California State University, including both of the following: the Intersegmental General Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements and a minimum of 18 semester units in a major or an area of emphasis, as determined by the community college district. Obtainment of a minimum grade point average of 2.0. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. For more information on CSU admission and transfer requirements consult with a counselor. Upon completion of the Associate in Science in Nutrition and Dietetics for Transfer the students will be able to demonstrate knowledge of the relationship of nutrients and lifestyle factors and the associated risk of chronic disease. Students will demonstrate knowledge of physiological processes such as digestion, absorption, transport and metabolism of nutrients. Students will recognize and separate scientifically supported information from misinformation. Students will identify ways in which social factors influence food related choices, practices, and beliefs.

**ASSOCIATE IN SCIENCE DEGREE***Student Learning Outcomes:*

- Demonstrate knowledge of the relationship of nutrients and lifestyle factors and the associated risk of chronic disease.
- Demonstrate knowledge of physiological processes such as digestion, absorption, transport and metabolism of nutrients.
- Recognize and separate scientifically supported information from misinformation.
- Identify ways in which social factors influence food related choices, practices and beliefs.

REQUIRED CORE COURSES		Units
BIOL 31	Microbiology.....	5
CHEM 1A	General Chemistry, <i>and</i> CHEM 1B	General Chemistry and Qualitative Analysis... 10
FN 40	Nutrition.....	3
PSY 2	General Psychology.....	3
List A: Select at least one course from the list below:		
BIOL 20	Human Anatomy.....	4
BIOL 21A	Human Anatomy & Physiology I, <i>and</i> BIOL 21B	Human Anatomy & Physiology II..... 9
BIOL 22	Human Physiology.....	5
CHEM 28A	Organic Chemistry I, <i>and</i> CHEM 29A	Organic Chemistry Laboratory I..... 5

MATH 11	Elementary Statistics, <i>or</i>	
MATH/PSY 42	Statistics for the Behavioral Sciences, <i>or</i>	
DS 23	Business Statistics.....	3-4
List B: Select one course:		
FN 1	Principles of Food Preparation.....	3
	Total	27-33

## FOOD SERVICE MANAGEMENT

### FOOD SERVICE MANAGEMENT – MAJOR #5691

This degree is designed to prepare students for employment in Food Service Management.

#### ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Identify the causes of food borne illness and the practices to prevent food borne illness in a food service system.
2. Evaluate the nutritional content of foods and menus.
3. Choose record keeping methods to monitor the fiscal viability of a food service establishment.

REQUIRED CORE COURSES		Units
ACCTG 4A	Financial Accounting, <i>or</i>	
BT 131	Applied Accounting.....	3.5-4
BA 18	Business and the Legal Environment.....	4
CIT 15	Computer Concepts .....	3
ECON 40/40H	Introduction to Microeconomics, <i>or</i>	
	Honors Introduction to Microeconomics.....	3
FN 1	Principles of Food Preparation.....	3
FN 35	Nutrition and Health, <i>or</i>	
FN 40	Nutrition.....	3
FSM 11	Food Service Supervision .....	2
FSM 15	Food Production Management .....	2
FSM 19	Work Experience (Cooperative),	
	Occupational .....	1-4
FSM 25	Food and Beverage Purchasing and Control .....	2
FSM 35	Food Services, Sanitation, Safety and	
	Equipment.....	2
FSM 38	Quantity Food Preparation.....	3
MKTG 10	Principles of Marketing .....	3
	Total	34.5-35

*Note: The Food Service Management major consists of 34.5-35 units as indicated above. Students must complete the Food Service Management major and associate degree requirements are listed on page 37. General Education requirements for transfer certification are on page 36.*

## FOOD SERVICE MANAGEMENT – MAJOR #5691

This certificate of achievement is designed to prepare students for employment in Food Service Management.

#### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Identify the causes of food borne illness and the practices to prevent food borne illness in a food service system.
2. Evaluate the nutritional content of foods and menus.
3. Choose record keeping methods to monitor the fiscal viability of a food service establishment.

REQUIRED CORE COURSES		Units
ACCTG 4A	Financial Accounting, <i>or</i>	
BT 131	Applied Accounting.....	3.5-4
BA 18	Business and the Legal Environment.....	4
CIT 15	Computer Concepts .....	3
ECON 40/40H	Introduction to Microeconomics, <i>or</i>	
	Honors Introduction to Microeconomics.....	3
FN 1	Principles of Food Preparation.....	3
FN 35	Nutrition and Health, <i>or</i>	
FN 40	Nutrition.....	3
FSM 11	Food Service Supervision .....	2
FSM 15	Food Production Management .....	2
FSM 19	Work Experience (Cooperative),	
	Occupational .....	1-4
FSM 25	Food and Beverage Purchasing and Control .....	2
FSM 35	Food Services, Sanitation, Safety and	
	Equipment.....	2
FSM 38	Quantity Food Preparation.....	3
MKTG 10	Principles of Marketing .....	3
	Total	34.5-38

### CHILD NUTRITION – MAJOR #5692

This certificate of achievement is designed to prepare students for employment in child care food programs.

#### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Evaluate the nutritional content of foods and menus.
2. Identify the causes of food borne illness and the practices to prevent food borne illness in a food service system.
3. Analyze and write/modify menus to meet the needs of a child care food program.

REQUIRED CORE COURSES		Units
CIT 15	Computer Concepts .....	3
FN 1	Principles of Food Preparation.....	3
FN 35	Nutrition and Health .....	3
FSM 35	Food Services, Sanitation, Safety and	
	Equipment.....	2
FSM 162	Menu Planning for Child Nutrition .....	3
	Total	14

ELECTIVES: Select 10 Units		Units
BT 6	Records Management.....	3
FN 42	Child Nutrition .....	3
FSM 11	Food Service Supervision .....	2
FSM 15	Food Production Management .....	2
FSM 19	Work Experience (Cooperative), Occupational.....	1-4
FSM 25	Food and Beverage Purchasing and Control .....	2
FSM 38	Quantity Food Preparation.....	3

Complete 14 units of required core courses. Select an additional 10 units from the elective courses for the certificate of achievement.

## GENERAL EDUCATION

### CSU-GE BREADTH – MAJOR #5010

The certificate of achievement in CSU GE provides students with an introduction to the breadth and depth of liberal arts and science with an emphasis in global perspectives. It provides students with a foundation in the liberal arts and sciences and prepares them for specialized study in a particular discipline or program. CSU Certification is not automatic, please request certification through Admission and Records. This Certificate of Achievement will allow the student to complete the lower division general education required courses but does not meet all the requirements for transfer (see Note). A course or sequence of courses used to satisfy a requirement in one area may not be used to satisfy a requirement in another area. Students should check with a counselor and review the FCC college catalog for further clarification. Note: The CSU Certificate of Achievement only confirms completing CSU general education requirements and does not meet Associate Degree or transfer admission requirements.

#### CERTIFICATE OF ACHIEVEMENT

##### Student Learning Outcomes:

- Evaluate and apply a global understanding of the liberal arts and sciences.

AREA A - English Language Communication and Critical Thinking – Nine semester units minimum with one course from A1, A2, and A3 (“C” or better grade required in A1, A2, and A3).

Area A1 – Oral Communication		Units
COMM 1	Introduction to Public Speaking .....	3
COMM 2	Interpersonal Communication .....	3
COMM 4	Persuasion .....	3
COMM 8/8H	Group Communication, <i>or</i> Honors Group Communication .....	3
Area A2 – Written Communication		Units
ENGL 1A/1AH	Reading and Composition, <i>or</i> Honors Reading and Composition .....	4

Area A3 – Critical Thinking		Units
COMM 25	Argumentation.....	3
CRIM 13	The Constitution and Your Individual Rights .....	3
ENGL 3/3H	Critical Reading & Writing, <i>or</i> Honors Critical Reading & Writing.....	3
PHIL 2/2H	Critical Reasoning and Analytic Writing, <i>or</i> Honors Critical Reasoning and Analytic Writing.....	3
PHIL 6	Introduction to Logic.....	3
POLSCI 13	Legal and Judicial Reasoning.....	3

AREA B - Scientific Inquiry and Quantitative Reasoning – Nine semester units minimum with at least one course in B1, B2, and B4 (“C” or better grade required in B4). One course in B1 or B2 must contain a lab component or be accompanied by a course in B3.

Area B1 – Physical Science		Units
ASTRO 10	Basic Astronomy .....	3
CHEM 1A	General Chemistry.....	5
CHEM 1B	General Chemistry and Qualitative Analysis .....	5
CHEM 3A	Introductory General Chemistry .....	4
CHEM 3B	Introductory Organic & Biological Chemistry.....	4
CHEM 8A	Elementary Organic Chemistry.....	3
CHEM 28A	Organic Chemistry I.....	3
CHEM 28B	Organic Chemistry II .....	3
GEOG 1	Physical Geography .....	4
GEOG 7	Physical Geography: Earth’s Surface .....	4
GEOG 8	Physical Geography: Weather and Climate.....	4
GEOL 1	Physical Geology .....	4
GEOL 2	Historical Geology.....	3
GEOL 4	Geology of California .....	3
GEOL 5	Introduction to Oceanography .....	3
GEOL 12	Environmental Science.....	3
NATSCI 1A	Integrated Science: Physics and Chemistry.....	4
PHYS 2A	General Physics 1 .....	4
PHYS 2B	General Physics 2 .....	4
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
PHYS 11	Introductory Physical Science.....	3

Area B2 – Life Science		Units
ANTHRO 1	Biological Anthropology.....	3
BIOL 3	Introduction to Life Science.....	4
BIOL 4	Principles of Zoology .....	5
BIOL 5	Human Biology .....	4
BIOL 6	Principles of Botany .....	5
BIOL 7	Field Biology .....	5
BIOL 11A	Biology for Science Majors I.....	5
BIOL 11B	Biology for Science Majors II .....	5
BIOL 14	Conservation Biology.....	3
BIOL 20	Human Anatomy.....	4

BIOL 21A	Human Anatomy & Physiology I .....	4	ART 6/6H	Art History Renaissance to Modern, <i>or</i> Honors Art History Renaissance to Modern .....	3
BIOL 21B	Human Anatomy & Physiology II .....	5			
BIOL 22	Human Physiology .....	5			
BIOL 31	Microbiology .....	5	ART 7	Beginning Drawing .....	3
BIOL 55	Introduction to the Biology of Humans .....	3	ART 9	Beginning Painting: Oil/Acrylic .....	3
Area B3 – Laboratory Activity		Units	ART 10	Beginning Ceramics .....	3
ANTHRO 1L	Biological Anthropology Laboratory .....	1	ART 11	Beginning Sculpture .....	3
CHEM 1A	General Chemistry .....	5	ART 12A	Craft Workshop: Living Traditions .....	3
CHEM 3A	Introductory General Chemistry .....	4	ART 12B	Intermediate Craft Workshop: Living Traditions .....	3
CHEM 29A	Organic Chemistry Laboratory I .....	2			
CHEM 29B	Organic Chemistry Lab II .....	2	ART 14	Beginning Printmaking .....	3
GEOG 1	Physical Geography .....	4	ART 15	Ceramic Sculpture .....	3
GEOL 2L	Historical Geology Lab .....	1	ART 17	Intermediate Drawing .....	3
PHYS 4A	Physics for Scientists and Engineers .....	4	ART/ASAMER 55	Introduction to Asian Art .....	3
PHYS 4B	Physics for Scientists and Engineers .....	4	ART 60/CLS 22	Art of the Ancient Americas .....	3
PHYS 4C	Physics for Scientists and Engineers .....	4	ART 70	Modern and Contemporary Art .....	3
Area B4 – Mathematics/Quantitative Reasoning		Units	CLS/DANCE 17A	Beginning Mexican Folk Dance .....	3.5
CSCI 26	Discrete Mathematics for Computer Science .....	4	CLS 20	Chicano Art .....	3
DS 21	Finite Mathematics .....	3	CLS/DANCE 27B	Advanced Mexican Folk Dance .....	3.5
DS 23	Business Statistics .....	3	DANCE 30	Dance Appreciation .....	3
MATH 3A	College Algebra .....	4	FILM 1	Introduction to Film Studies .....	3
MATH 4A	Trigonometry .....	4	FILM 2A	History of Cinema 1895-1960 .....	3
MATH 4B	Pre-Calculus .....	4	FILM 2B	History of Cinema 1960-Present .....	3
MATH 5A	Mathematical Analysis I .....	5	FILM 6	Film Genres .....	3
MATH 5B	Mathematical Analysis II .....	4	MUS 3	Music Fundamentals .....	3
MATH 6	Mathematical Analysis III .....	4	MUS 12	Music Appreciation .....	3
MATH 10A	Structure and Concepts in Mathematics I .....	3	MUS 13	History of Music .....	3
MATH 10B	Structure and Concepts in Mathematics II .....	3	MUS 15	World Music Survey .....	3
MATH 11/11H	Elementary Statistics, <i>or</i> Honors Elementary Statistics .....	4	MUS 16	Jazz History and Appreciation .....	3
MATH 17	Differential Equations and Linear Algebra .....	5	MUS 17	History of Rock .....	3
MATH 21	Finite Mathematics .....	3	PHOTO 5	Introduction to Photography .....	3
MATH 26	Elementary Linear Algebra .....	3	TA/COMM 12	Fundamentals of Oral Interpretation .....	3
MATH/PSY 42	Statistics for the Behavioral Sciences .....	4	TA 30	Theatre Appreciation .....	3
MATH 45	Contemporary Mathematics .....	3	TA 31	Theatre History and Dramatic Literature I .....	3
AREA C - Arts and Humanities – Nine semester units minimum with at least one course each from C1 and C2.			TA 44A	Actors Workshop .....	3
Area C1 – Arts		Units	Area C2 - Humanities		Units
AFRAM 3	African-American Art .....	3	ARMEN 1	Beginning Armenian .....	5
AFRAM 8	African-American Creative Workshop .....	3	ARMEN 2	High-Beginning Armenian .....	5
AFRAM 15	African American Music .....	3	ASAMER 8	Chinese Culture .....	3
AMIND 35	American Indian Art .....	3	ASL 1	Beginning American Sign Language .....	4
ARCH 15A	History of Architecture I .....	3	ASL 2	High-Beginning American Sign Language .....	4
ARCH 15B	History of Architecture II .....	3	ASL 3	Intermediate American Sign Language .....	4
ART 2	Art Appreciation .....	3	ASL 4	High-Intermediate American Sign Language .....	4
ART 3	Two-Dimensional Design .....	3	ASL 5	Deaf Culture .....	3
ART 5/5H	Art History Ancient to Medieval, <i>or</i> Honors Art History Ancient to Medieval .....	3	ASL 7	Deaf History .....	3
			ASL 8	American Sign Language Literature/Folklore .....	3
			CHIN 1	Beginning Chinese .....	5
			CHIN 2	High-Beginning Chinese .....	5
			CLS 21	Chicano Literature .....	3
			ENGL 1B	Introduction to the Study of Literature .....	3

ENGL 12	The Bible as Literature.....	3	SPAN 3	Intermediate Spanish.....	5
ENGL 14	Folklore.....	3	SPAN 3NS	Intermediate Spanish for Spanish Speakers .....	5
ENGL 15A	Creative Writing: Poetry .....	3	SPAN 4	High-Intermediate Spanish.....	5
ENGL 15B	Creative Writing: Fiction.....	3	SPAN 4NS	High-Intermediate Spanish for Spanish Speakers .....	5
ENGL/AFRAM 17	African-American Literature.....	3	SPAN 5	The Short Story: Mexico, Spain, and the U.S. ....	4
ENGL/WSTS 36	Women's Literature.....	3	SPAN 6	The Short Story: Latin America.....	4
ENGL 40	Themes in Literature.....	3	SPAN 7	Advanced Spanish: Composition and Grammar .....	4
ENGL/HUMAN 42	Classic Myths .....	3	SPAN 9	Spanish Business and Culture .....	4
ENGL 44A	World Literature to the Renaissance .....	3	SPAN 41	Introduction to Poetry in Spanish.....	4
ENGL 44B	World Literature since the Renaissance .....	3	SPAN 42	Hispanic American Culture.....	4
ENGL 45	Contemporary World Literature .....	3	TA 32	Theatre History and Dramatic Literature II .....	3
ENGL 46A	English Literature to 1800 .....	3			
ENGL 46B	English Literature from 1800 to the Present .....	3			
ENGL 47	Introduction to Shakespeare.....	3			
ENGL 48A	Introduction to American Literature to 1865 .....	3			
ENGL 48B	Introduction to American Literature 1865 to the Present.....	3			
FILM 1	Introduction to Film Studies.....	3			
FILM 2A	History of Cinema 1895-1960.....	3			
FILM 2B	History of Cinema 1960-Present.....	3			
FILM 3	Film and Culture .....	3			
FRENCH 1	Beginning French.....	5			
FRENCH 2	High-Beginning French.....	5			
FRENCH 3	Intermediate French.....	5			
GERMAN 1	Beginning German .....	5			
GERMAN 2	High-Beginning German .....	5			
HIST 1	Western Civilization to 1648 .....	3			
HIST 2	Western Civilization Since 1648.....	3			
HMONG 1	Beginning Hmong .....	5			
HMONG 2	High-Beginning Hmong .....	5			
HUMAN 10	Classical Humanities.....	3			
HUMAN 11	Modern Humanities.....	3			
JAPAN 1	Beginning Japanese .....	5			
JAPAN 2	High-Beginning Japanese .....	5			
LING 10/10H	Introduction to Language, <i>or</i> Honors Introduction to Language.....	3			
PHIL 1A/1AH	Theories of Knowledge and Reality, <i>or</i> Honors Theories of Knowledge and Reality.....	3			
PHIL 1B	Social and Political Philosophy.....	3			
PHIL 1C/1CH	Ethics, <i>or</i> Honors Ethics .....	3			
PHIL 1D	World Religions .....	3			
PHIL 3A	Ancient Philosophy .....	3			
PHIL 3B	Modern Philosophy.....	3			
PHIL 5	Philosophy of Religion.....	3			
POLSCI 3	Introduction to Political Theory and Thought .....	3			
PORT 1	Beginning Portuguese.....	5			
PORT 2	High-Beginning Portuguese.....	5			
SPAN 1	Beginning Spanish.....	5			
SPAN 2	High-Beginning Spanish.....	5			
SPAN 2NS	Preparatory Spanish for Native Speakers.....	5			
			AREA D: Social Sciences – Nine semester units minimum from at least two disciplines. Units		
			AFRAM 1	Introduction to African American Studies .....	3
			AFRAM 4	Classical and Pre Colonial Africa .....	3
			AFRAM/HIST 34	History of the American Civil Rights Movement .....	3
			AMIND 31	American Indian Culture.....	3
			AMIND 34	The American Indian in Contemporary Society....	3
			AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society.....	3
			AMST 11	Law and Democracy .....	3
			ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology .....	3
			ANTHRO 3	Archaeology and World Prehistory.....	3
			ANTHRO 4	Introduction to Archaeology .....	3
			ANTHRO 8	Language and Culture .....	3
			ANTHRO 12	Visual Anthropology: Introduction to Ethnographic Film.....	3
			ASAMER 1	Indo-Chinese Americans.....	3
			ASAMER 10	Hmong Culture.....	3
			ASAMER 15	Introduction to Asian-Americans.....	3
			ASAMER 25	Asian American Social Issues .....	3
			BA 20	Law and the Legal System .....	3
			CHDEV 30	Child, Family and Community.....	3
			CHDEV/PSY 38	Lifespan Development.....	3
			CHDEV/PSY 39	Child Growth and Development.....	3
			CLS 11	Introduction to Chicano-Latino Studies.....	3
			CLS 12	Mexican American History .....	3
			CLS/HIST 29	History Of Mexico, Colonial to Contemporary Period .....	3
			CLS 30	Migration and the Family: Social and Psychological Perspectives.....	3
			ECON 25	Introduction to Economics .....	3
			ECON 40/40H	Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics.....	3
			ECON 50/50H	Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics.....	3
			GEOG 2	Cultural Geography .....	3

GEOG 4A	World Geography .....	3	PE 6	Fitness and Health.....	1
GEOG 4B	World Geography .....	3	PE 7	Golf .....	1
GEOG 20	Geography of California .....	3	PE 8	Basic Self Defense.....	1
GLST 1	Introduction to Global Studies.....	3	PE 9	Circuit Training .....	1
GLST 2	Global Issues .....	3	PE 12	Swimming.....	1
HIST 1	Western Civilization to 1648 .....	3	PE 12B	Intermediate Swimming.....	1
HIST 2	Western Civilization Since 1648.....	3	PE 13	Tennis.....	1
HIST 3	History of Ancient Rome.....	3	PE 13B	Intermediate Tennis .....	1
HIST 11	History of the United States to 1877 .....	3	PE 14	Volleyball .....	1
HIST 12/12H	History of the United States since 1877, <i>or</i> Honors History of the United States since 1877 .....	3	PE 15A	Weight Training (Women).....	1
			PE 15B	Weight Training (Men).....	1
			PE 15C	Weight Training (Coed) .....	1
HIST 15	History of the British Isles.....	3	PE 17	Hatha Yoga.....	1
HIST 17	History of the Muslim World to 1405 .....	3	PE 27	High-Intensity Cardio Interval Training.....	1
HIST 18	History of Ancient Greece.....	3	PE 29B	Competitive Badminton .....	3
HIST 20	World History I, to 1600.....	3	PE 29C	Off-Season Conditioning for Badminton .....	1
HIST 21	United States Civil War .....	3	PE 30B	Competitive Baseball.....	3
HIST/WSTS 22	History of American Women.....	3	PE 30C	Off-Season Conditioning for Baseball .....	1
HIST 23	World History II, since 1500.....	3	PE 31B	Competitive Basketball.....	3
HIST 25	History of Religion in the United States.....	3	PE 31C	Off-Season Conditioning for Basketball .....	1
HIST 30	California History .....	3	PE 32B	Competitive Cross Country .....	3
HS/SOC 10	Introduction to Aging Studies.....	3	PE 33B	Competitive Football .....	3
JOURN 1	Introduction to Mass Communication .....	3	PE 33C	Off-Season Conditioning for Football.....	1
JOURN 16	Race, Gender and the Media.....	3	PE 34B	Competitive Golf .....	3
POLSCI 1	Modern Politics.....	3	PE 34C	Off-Season Conditioning for Golf .....	1
POLSCI 2/2H	American Government, <i>or</i> Honors American Government .....	3	PE 35B	Cheer and Stunt .....	2
			PE 36B	Competitive Soccer .....	3
POLSCI 3	Introduction to Political Theory and Thought .....	3	PE 36C	Off-Season Conditioning for Soccer.....	1
POLSCI 5	Comparative Government.....	3	PE 37B	Competitive Softball .....	3
POLSCI 24	International Relations.....	3	PE 37C	Off-Season Conditioning for Softball .....	1
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3	PE 38B	Competitive Tennis.....	3
			PE 38C	Off-Season Conditioning for Tennis .....	1
SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology .....	3	PE 39B	Competitive Track and Field .....	3
			PE 39C	Off-Season Conditioning for Track and Field.....	1
SOC 1B	Critical Thinking about Social Problems .....	3	PE 40B	Competitive Volleyball .....	3
SOC 2	American Minority Groups .....	3	PE 40C	Off-Season Conditioning for Volleyball .....	1
SOC 32	Introduction to Marriage and Family .....	3	PE 41B	Competitive Men's Wrestling.....	3
WSTS 10	Changing Roles of Women.....	3	PE 41C	Off-Season Conditioning for Men's Wrestling .....	1
WSTS 47	Introduction to Lesbian and Gay Studies.....	3	PE 42B	Competitive Water Polo.....	3
			PE 42C	Off-Season Conditioning for Water Polo .....	1
			PE 43B	Competitive Swimming & Diving .....	3
			PE 43C	Off-Season Conditioning for Swimming & Diving .....	1
CHDEV/PSY 38	Lifespan Development.....	3	PE 44B	Competitive Sand Volleyball .....	3
CHDEV/PSY 39	Child Growth and Development.....	3	PE 44C	Off-Season Conditioning for Sand Volleyball .....	1
FN 35	Nutrition and Health .....	3	PE 45	Performance Training and Conditioning Techniques for Intercollegiate Athletics .....	0.5
FN 40	Nutrition .....	3			
HLTH 1	Contemporary Health Issues .....	3			
PE 3	Archery.....	1	PE 46B	Competitive Women's Wrestling.....	3
PE 4	Badminton.....	1	PE 46C	Off-Season Conditioning for Women's Wrestling.....	1
PE 4B	Intermediate Badminton .....	1			
PE 5	Basketball.....	1	PE 70	Fitness Aerobics.....	1



PE 71	Soccer.....	1
PE 72	Spinning for Fitness.....	1
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
PSY 25	Human Sexuality.....	3
PSY 33	Personal and Social Adjustment.....	3
	Total	39

*NOTES: U.S. History, Constitution, and American Ideals - To graduate from a California State University a student must complete, with a "D" or better grades, a combination of courses which are identified as meeting the U. S. History, Constitution, and American Ideals requirements. Courses at Fresno City College which meet this requirement are: one course from History 11 or 12 combined with one course from Political Science 2/2H or 6. These courses may also be used simultaneously to satisfy course requirements on the CSU GE-Breadth pattern.*

### IGETC BREADTH – MAJOR #5020/5030

The general education or breadth requirements are designed to give CSU/UC undergraduates a broad background in all major academic disciplines-natural sciences, physical sciences, social sciences, mathematics, humanities and visual and performing arts. This certificate allows the student to complete Certification of the Intersegmental General Education Transfer Curriculum (IGETC) for the California State University (CSU) or University of California (UC). IGETC Certification is not automatic, please request certification through Admission and Records. This Certificate of Achievement will allow the student to complete the lower division general education required courses but does not meet all the requirements for transfer (see Note). A course or sequence of courses used to satisfy a requirement in one area may not be used to satisfy a requirement in another area. Students should check with a counselor and review the FCC college catalog for further clarification. NOTE: The IGETC Certificate of Achievement only confirms completing CSU and/or UC general education requirements and does not meet Associate Degree of transfer admission requirements. Completion of IGETC is NOT an admission requirement to CSU or UC. It is not advisable for students who are pursuing majors that require extensive lower division preparation, such as Engineering or Liberal Studies, to follow IGETC. All courses must be completed with a "C" or better. Courses must be on the college's approved IGETC list at time the course was completed. Students should check with a counselor and review the FCC college catalog for further clarification. NOTE: The IGETC Certificate of Achievement only confirms completing CSU and/or UC general education requirements and does not meet Associate Degree of transfer admission requirements. Completion of IGETC is NOT an admission requirement to CSU or UC. It is not advisable for students who are pursuing majors that require extensive lower division preparation, such as Engineering or Liberal Studies, to follow IGETC. All courses must be completed with a "C" or better. Courses must be on the college's approved IGETC list at time the course was completed. Students should check with a counselor and review the FCC college catalog for further clarification.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Evaluate and apply a global understanding of the liberal arts and sciences.

AREA 1: English Composition - CSU: 3 courses required, one each from Group 1A, 1B, and 1C listed below (9 semester units minimum)

UC: 2 courses required, one each from Group 1A and 1B listed below (6 semester units minimum)

Group 1A – English Composition: One course, three semester units.

ENGL 1A/1AH	Reading and Composition, <i>or</i> Honors Reading and Composition.....	4
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Group 1B – Critical Thinking-English Composition: One course, three semester units.

ENGL 3/3H	Critical Reading & Writing, <i>or</i> Honors Critical Reading & Writing.....	3
PHIL 2/2H	Critical Reasoning and Analytic Writing, <i>or</i> Honors Critical Reasoning and Analytic Writing.....	3

Group 1C – Oral Communication: (CSU only) One course, three semester units.

COMM 1	Introduction to Public Speaking.....	3
COMM 4	Persuasion.....	3
COMM 8/8H	Group Communication, <i>or</i> Honors Group Communication.....	3
COMM 25	Argumentation.....	3

AREA 2: Mathematical Concepts and Quantitative Reasoning – One course required (three semester units minimum)

CSCI 26	Discrete Mathematics for Computer Science.....	4
DS 21	Finite Mathematics.....	3
DS 23	Business Statistics.....	3
MATH 3A	College Algebra.....	4
MATH 4B	Pre-Calculus.....	4
MATH 5A	Mathematical Analysis I.....	5
MATH 5B	Mathematical Analysis II.....	4
MATH 6	Mathematical Analysis III.....	4
MATH 10A	Structure and Concepts in Mathematics I.....	3
MATH 10B	Structure and Concepts in Mathematics II.....	3
MATH 11/11H	Elementary Statistics, <i>or</i> Honors Elementary Statistics.....	4
MATH 17	Differential Equations and Linear Algebra.....	3
MATH 21	Finite Mathematics.....	3
MATH 26	Elementary Linear Algebra.....	3
MATH/PSY 42	Statistics for the Behavioral Sciences.....	4

AREA 3: Arts and Humanities – At least three courses with at least one from Arts and one from Humanities (nine semester units minimum)		ENGL 48B	Introduction to American Literature 1865 to the Present..... 3
Group 3A - Arts		FILM 1	Introduction to Film Studies..... 3
AFRAM 3	African-American Art..... 3	FILM 2A	History of Cinema 1895-1960..... 3
AFRAM 15	African American Music..... 3	FILM 2B	History of Cinema 1960-Present..... 3
AMIND 35	American Indian Art..... 3	FILM 3	Film and Culture..... 3
ARCH 15A	History of Architecture I..... 3	FRENCH 2	High-Beginning French..... 5
ARCH 15B	History of Architecture II..... 3	FRENCH 3	Intermediate French..... 5
ART 2	Art Appreciation..... 3	GERMAN 2	High-Beginning German..... 5
ART 5/5H	Art History Ancient to Medieval, <i>or</i> Honors Art History Ancient to Medieval..... 3	HIST 1	Western Civilization to 1648..... 3
ART 6/6H	Art History Renaissance to Modern, <i>or</i> Honors Art History Renaissance to Modern..... 3	HIST 2	Western Civilization Since 1648..... 3
ART/ASAMER 55	Introduction to Asian Art..... 3	HMONG 2	High-Beginning Hmong..... 5
ART 60/CLS 22	Art of the Ancient Americas..... 3	HUMAN 10	Classical Humanities..... 3
ART 70	Modern and Contemporary Art..... 3	HUMAN 11	Modern Humanities..... 3
CLS 20	Chicano Art..... 3	JAPAN 2	High-Beginning Japanese..... 5
DANCE 30	Dance Appreciation..... 3	LING 10/10H	Introduction to Language, <i>or</i> Honors Introduction to Language..... 3
FILM 6	Film Genres..... 3	PHIL 1A/1AH	Theories of Knowledge and Reality, <i>or</i> Honors Theories of Knowledge and Reality..... 3
MUS 3	Music Fundamentals..... 3	PHIL 1B	Social and Political Philosophy..... 3
MUS 12	Music Appreciation..... 3	PHIL 1C/1CH	Ethics, <i>or</i> Honors Ethics..... 3
MUS 13	History of Music..... 3	PHIL 1D	World Religions..... 3
MUS 16	Jazz History and Appreciation..... 3	PHIL 3A	Ancient Philosophy..... 3
MUS 17	History of Rock..... 3	PHIL 3B	Modern Philosophy..... 3
TA 30	Theatre Appreciation..... 3	PHIL 5	Philosophy of Religion..... 3
TA 31	Theatre History and Dramatic Literature I..... 3	PORT 2	High-Beginning Portuguese..... 5
TA 32	Theatre History and Dramatic Literature II..... 3	SPAN 2	High-Beginning Spanish..... 5
Group 3B - Humanities		SPAN 2NS	Preparatory Spanish for Native Speakers..... 5
ARMEN 2	High-Beginning Armenian..... 5	SPAN 3	Intermediate Spanish..... 5
ASAMER 8	Chinese Culture..... 3	SPAN 3NS	Intermediate Spanish for Spanish Speakers..... 5
ASL 2	High-Beginning American Sign Language..... 4	SPAN 4	High-Intermediate Spanish..... 5
ASL 3	Intermediate American Sign Language..... 4	SPAN 4NS	High-Intermediate Spanish for Spanish Speakers..... 5
ASL 4	High-Intermediate American Sign Language..... 4	SPAN 5	The Short Story: Mexico, Spain, and the U.S..... 4
ASL 7	Deaf History..... 3	SPAN 6	The Short Story: Latin America..... 4
ASL 8	American Sign Language Literature/Folklore..... 3	SPAN 7	Advanced Spanish: Composition and Grammar..... 4
CHIN 2	High-Beginning Chinese..... 5	SPAN 41	Introduction to Poetry in Spanish..... 4
CLS 21	Chicano Literature..... 3	SPAN 42	Hispanic American Culture..... 4
ENGL 1B	Introduction to the Study of Literature..... 3	AREA 4: Social and Behavioral Sciences – At least three courses from at least two different disciplines (nine semester units minimum)	
ENGL 12	The Bible as Literature..... 3	Group 4A – Anthropology and Archaeology	
ENGL 14	Folklore..... 3	ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology..... 3
ENGL/AFRAM 17	African-American Literature..... 3	ANTHRO 3	Archaeology and World Prehistory..... 3
ENGL/WSTS 36	Women's Literature..... 3	ANTHRO 4	Introduction to Archaeology..... 3
ENGL/HUMAN 42	Classic Myths..... 3	ANTHRO 8	Language and Culture..... 3
ENGL 44A	World Literature to the Renaissance..... 3	ANTHRO 12	Visual Anthropology: Introduction to Ethnographic Film..... 3
ENGL 44B	World Literature since the Renaissance..... 3		
ENGL 45	Contemporary World Literature..... 3		
ENGL 46A	English Literature to 1800..... 3		
ENGL 46B	English Literature from 1800 to the Present..... 3		
ENGL 47	Introduction to Shakespeare..... 3		
ENGL 48A	Introduction to American Literature to 1865..... 3		

Group 4B - Economics	Units	Group 4G – Interdisciplinary, Social & Behavioral Sciences	Units
ECON 40/40H	Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics..... 3	AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society..... 3
ECON 50/50H	Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics..... 3	CHDEV 30	Child, Family and Community..... 3
Group 4C – Ethnic Studies	Units	CHDEV/PSY 39	Child Growth and Development..... 3
AFRAM 1	Introduction to African American Studies ..... 3	CLS 30	Migration and the Family: Social and Psychological Perspectives..... 3
AFRAM/HIST 34	History of the American Civil Rights Movement ..... 3	GLST 1	Introduction to Global Studies..... 3
AMIND 31	American Indian Culture..... 3	GLST 2	Global Issues ..... 3
AMIND 34	The American Indian in Contemporary Society ..... 3	JOURN 1	Introduction to Mass Communication ..... 3
ASAMER 1	Indo-Chinese Americans..... 3	Group 4H – Political Science, Government & Legal Institutions	Units
ASAMER 10	Hmong Culture..... 3	AMST 11	Law and Democracy ..... 3
ASAMER 15	Introduction to Asian-Americans..... 3	POLSCI 1	Modern Politics..... 3
ASAMER 25	Asian American Social Issues ..... 3	POLSCI 2/2H	American Government, <i>or</i> Honors American Government ..... 3
CLS 11	Introduction to Chicano-Latino Studies..... 3	POLSCI 3	Introduction to Political Theory and Thought ..... 3
CLS 12	Mexican American History ..... 3	POLSCI 5	Comparative Government..... 3
JOURN 16	Race, Gender and the Media..... 3	POLSCI 24	International Relations..... 3
Group 4D – Gender Studies	Units	Group 4I – Psychology	Units
HIST 22	History of American Women..... 3	CHDEV/PSY 38	Lifespan Development..... 3
JOURN 16	Race, Gender and the Media..... 3	CHDEV/PSY 39	Child Growth and Development..... 3
WSTS 10	Changing Roles of Women..... 3	PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology..... 3
WSTS 47	Introduction to Lesbian and Gay Studies..... 3	Group 4J – Sociology & Criminology	Units
Group 4E - Geography	Units	HS/SOC 10	Introduction to Aging Studies..... 3
GEOG 2	Cultural Geography ..... 3	SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology ..... 3
GEOG 4A	World Geography ..... 3	SOC 2	American Minority Groups ..... 3
GEOG 4B	World Geography ..... 3	AREA 5: Physical and Biological Sciences – At least two courses, one Physical Science and one Biological Science (seven to nine semester units minimum). One course must have a lab component.	
GEOG 20	Geography of California ..... 3	Group 5A – Physical Sciences	Units
Group 4F - History	Units	ASTRO 10	Basic Astronomy ..... 3
AFRAM 4	Classical and Pre Colonial Africa ..... 3	CHEM 1A	General Chemistry..... 5
HIST 3	History of Ancient Rome..... 3	CHEM 1B	General Chemistry and Qualitative Analysis..... 5
HIST 11	History of the United States to 1877..... 3	CHEM 3A	Introductory General Chemistry ..... 4
HIST 12/12H	History of the United States since 1877, <i>or</i> Honors History of the United States since 1877 ..... 3	CHEM 8A	Elementary Organic Chemistry ..... 3
HIST 15	History of the British Isles..... 3	CHEM 28A	Organic Chemistry I ..... 3
HIST 17	History of the Muslim World to 1405 ..... 3	CHEM 28B	Organic Chemistry II ..... 3
HIST 18	History of Ancient Greece..... 3	GEOG 1	Physical Geography ..... 4
HIST 20	World History I, to 1600..... 3	GEOG 7	Physical Geography: Earth's Surface ..... 4
HIST 21	United States Civil War ..... 3	GEOG 8	Physical Geography: Weather and Climate..... 4
HIST/WSTS 22	History of American Women..... 3	GEOL 1	Physical Geology ..... 4
HIST 23	World History II, since 1500..... 3	GEOL 2	Historical Geology..... 3
HIST 25	History of Religion in the United States..... 3	GEOL 4	Geology of California ..... 3
HIST/CLS 29	History Of Mexico, Colonial to Contemporary Period ..... 3	GEOL 5	Introduction to Oceanography ..... 3
HIST 30	California History ..... 3	GEOL 12	Environmental Science..... 3
HIST/AFRAM 34	History of the American Civil Rights Movement ..... 3	PHYS 2A	General Physics 1 ..... 4
		PHYS 2B	General Physics 2 ..... 4

PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
PHYS 11	Introductory Physical Science.....	3
Group 5B – Biological Sciences		Units
ANTHRO 1	Biological Anthropology.....	3
BIOL 3	Introduction to Life Science.....	4
BIOL 4	Principles of Zoology.....	5
BIOL 5	Human Biology.....	4
BIOL 6	Principles of Botany.....	5
BIOL 11A	Biology for Science Majors I.....	5
BIOL 11B	Biology for Science Majors II.....	5
BIOL 14	Conservation Biology.....	3
BIOL 20	Human Anatomy.....	4
BIOL 21A	Human Anatomy & Physiology I.....	4
BIOL 21B	Human Anatomy & Physiology II.....	5
BIOL 22	Human Physiology.....	5
BIOL 31	Microbiology.....	5
BIOL 55	Introduction to the Biology of Humans.....	3
Group 5C – Science Laboratory		Units
ANTHRO 1L	Biological Anthropology Laboratory.....	1
CHEM 1A	General Chemistry.....	5
CHEM 3A	Introduction to General Chemistry.....	4
CHEM 29A	Organic Chemistry Laboratory I.....	2
CHEM 29B	Organic Chemistry Lab II.....	2
GEOG 1	Physical Geography.....	4
GEOL 2L	Historical Geology Lab.....	1
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
PHYS 4C	Physics for Scientists and Engineers.....	4

AREA 6: UC Requirement in Language Other Than English - Proficiency equivalent to two years of high school study in same language with "C" or better grades (at Fresno City College one course required if not met by high school foreign language). Units

ARMEN 1	Beginning Armenian.....	5
ARMEN 2	High-Beginning Armenian.....	5
ASL 1	Beginning American Sign Language.....	4
ASL 2	High-Beginning American Sign Language.....	4
ASL 3	Intermediate American Sign Language.....	4
ASL 4	High-Intermediate American Sign Language.....	4
CHIN 1	Beginning Chinese.....	5
CHIN 2	High-Beginning Chinese.....	5
FRENCH 1	Beginning French.....	5
FRENCH 2	High-Beginning French.....	5
FRENCH 3	Intermediate French.....	5
GERMAN 1	Beginning German.....	5
GERMAN 2	High-Beginning German.....	5
HMONG 1	Beginning Hmong.....	5

HMONG 2	High-Beginning Hmong.....	5
JAPAN 1	Beginning Japanese.....	5
JAPAN 2	High-Beginning Japanese.....	5
PORT 1	Beginning Portuguese.....	5
PORT 2	High-Beginning Portuguese.....	5
SPAN 1	Beginning Spanish.....	5
SPAN 2	High-Beginning Spanish.....	5
SPAN 3	Intermediate Spanish.....	5
SPAN 3NS	Intermediate Spanish for Spanish Speakers.....	5
SPAN 4	High-Intermediate Spanish.....	5
SPAN 4NS	High-Intermediate Spanish for Spanish Speakers.....	5
SPAN 7	Advanced Spanish: Composition and Grammar.....	4

AREA 7: CSU Graduation Requirement in U.S. History, Constitution, and American Ideals - One course from each group (six semester units minimum). This requirement is NOT part of IGETC, but may be completed prior to transfer. CSU campuses have the discretion whether to allow courses to satisfy the CSU United States History, Constitution and American Ideals (AI) graduation requirement to count in both Areas 3B/4 and to meet the AI graduation requirement.

Group 1		Units
POLSCI 2/2H	American Government, <i>or</i> Honors American Government.....	3
Group 2		Units
HIST 11	History of the United States to 1877.....	3
HIST 12	History of the United States since 1877.....	3
	Total	38-50



## GEOGRAPHY FOR TRANSFER – MAJOR #6072

An Associate in Geography for transfer is designed for students planning to complete a bachelor's degree in Geography at a CSU. Geography explores Earth's landscapes and the physical processes shaping them as well as human relationships with the environment. Geographic inquiry bridges the Social and Natural sciences, and is rooted in spatial analysis of phenomena. Within geography there are a number of sub-disciplines, ranging from climatology and geomorphology to the study of human cultures, migrations, economies, and urban environments. Geographers study the interaction of people with the natural environment, as well as the impacts of people and their activities shape, and are in turn shaped, by the natural environment. Cultural Geography focuses on the spatial organization of the societies at scales ranging from the local to the global, utilizing different time scales. Geographic analysis, particularly through the use of Geographic Information Systems (GIS), is used to address a wide range of issues and problems of the modern world. The Associate in Geography is composed of a core set of introductory Geography courses that assist students in developing critical thinking and spatial analysis skills. It also provides students with a solid foundation for pursuing further study in related majors. To earn the Associate in Geography degree for transfer, students must complete (60) required semester units of CSU-transferable coursework, CSU-GE breadth or UGETC requirements and (33) semester units within the major. Students must maintain a minimum 2.0 GPA including grades of C or higher in each course taken to fulfill the major. Students should consult with a counselor when planning to complete the degree for more information on university admissions and transfer requirements.

### ASSOCIATE IN ARTS DEGREE

#### Student Learning Outcomes:

1. Define and provide examples of basic geographical concepts in physical and human geography. (For example: plate tectonics, culture hearths and diffusion.)
2. Describe physical processes by which surface features are formed and shaped, (e.g. climate; landforms) and human geography (e.g. religion; population).
3. Explain how geographical factors have shaped historical and current patterns of physical and human geography. (For example, how plate tectonics influences the location and shape of the continents, or how environment and economics have influenced migration and settlement patterns)

REQUIRED CORE COURSES		Units
GEOG 1	Physical Geography .....	4
GEOG 2	Cultural Geography .....	3
GEOG 4A	World Geography .....	3
GEOG 4B	World Geography .....	3

LIST A: Select Two Courses		Units
ANTHRO 2	Cultural Anthropology .....	3
GEOG 8	Physical Geography: Weather and Climate .....	4
GEOG 10	Introduction to GIS .....	3
GEOG 20	Geography of California .....	3
Total		19-20

## GEOLOGY FOR TRANSFER - MAJOR #6070

Geology is a useful major for students with a variety of interests and career goals in the earth sciences including geology, hydrogeology, astrogeology, paleontology, mineralogy, engineering geology, geophysics, geochemistry, petroleum geology, oceanography and environmental science. The Associate in Science in Geology for Transfer program is designed for students who plan to complete a bachelor's degree in a similar major a CSU campus. To earn the Associate in Science in Geology for Transfer program, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 27 units within the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Students must have a minimum grade point average of 2.0. Students must earn a C or better in all courses required for the major.

### ASSOCIATE IN SCIENCE DEGREE

#### Student Learning Outcomes:

1. Identify distinguishing characteristics, properties, and origin of common rocks and minerals.
2. Explain the processes of plate tectonic theory and identify associated geologic features and events.
3. Determine the age relationships of rocks and fossils using various dating techniques.

CORE COURSES		Units
CHEM 1A	General Chemistry .....	5
CHEM 1B	General Chemistry and Qualitative Analysis .....	5
GEOG 1	Physical Geology .....	4
GEOG 2	Historical Geology .....	3
GEOG 2L	Historical Geology Lab .....	1
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4

#### Notes:

*Additional recommended courses (not part of degree)*

*Physics 4A and Physics 4B (8 units)*

*or (see requirements of 4 year institution)*

*Physics 2A and Physics 2B (8 units)*

*Biology 3 (3.5 units)*

*Geology 3 (1-2 units)*

*Geology 11 (1-2 units)*

## GLOBAL STUDIES

### GLOBAL STUDIES FOR TRANSFER – MAJOR #7740

The Associate in Arts in Global Studies for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus, to include Global Studies, Global Politics, International Relations, International Studies and Comparative Government. This degree will acquaint students with the interdisciplinary field of global studies and introduce students to various global issues with a focus on the analysis of causes and solutions. To earn the Associate in Arts in Global Studies for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

1. Explain the various meanings of globalization and identify regional differences.
2. Explain recurring and emerging global issues from a historical and interdisciplinary perspective.
3. Critically evaluate the effectiveness of national, regional and international efforts to solve problems associated with global issues.

REQUIRED CORE COURSES	Units
GLST 1 Introduction to Global Studies.....	3
GLST 2 Global Issues .....	3
List A: Select five courses from at least four of the following areas.	
Area 1: Culture and Society Units	
ANTHRO 2 Cultural Anthropology.....	3
HIST 23 World History II, since 1500.....	3
Area 2: Geography Units	
GEOG 1 Physical Geography .....	4
GEOG 2 Cultural Geography .....	3
GEOG 4A World Geography, <i>and</i>	
GEOG 4B World Geography.....	6
Area 3: Economics Units	
ECON 40/40H Introduction to Microeconomics, <i>or</i>	
Honors Introduction to Microeconomics.....	3
ECON 50/50H Introduction to Macroeconomics, <i>or</i>	
Honors Introduction to Macroeconomics.....	3

Area 4: Politics		Units
POLSCI 5	Comparative Government.....	3
POLSCI 24	International Relations.....	3
Area 5: Humanities		Units
ENGL 44A	World Literature to the Renaissance .....	3
ENGL 44B	World Literature since the Renaissance.....	3
FRENCH 3	Intermediate French, <i>or</i>	
SPAN 3	Intermediate Spanish.....	5
Total		21-24

## GRAPHIC COMMUNICATIONS

### GRAPHIC DESIGN - FORMERLY GRAPHIC DESIGN OPTION – MAJOR #8507

Graphic Design combines aspects of the graphic communication and business curricula to provide a foundation in graphic design. The student will receive a background in computer graphics, and introductory video, audio and web design with an understanding of the requirements and limitations of production.

#### ASSOCIATE IN ARTS DEGREE AND CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcome:*

1. Demonstrate competency in communication techniques and visual design theory through the use of application specific software and hardware.

REQUIRED CORE COURSES	Units	
BA 38 Operation of the Small Business, <i>or</i>		
BA 52 Introduction to Entrepreneurship .....	3	
GRC 15 Web Design.....	4	
GRC 17 Adobe Illustrator.....	3	
GRC 20A Intro to Applied Graphics – Adobe Tools .....	3	
GRC 20B Intro to Applied Graphics –Media .....	3	
GRC 30 Adobe InDesign/Professional Publishing.....	3	
GRC 31 Intermediate Photoshop .....	3	
GRC 39A Introduction to Graphic Design .....	3	
GRC 40A Intermediate Graphic Design .....	3	
GRC 55 Social Media Design .....	2	
Total		30

**GRAPHIC DESIGN - MAJOR #8507**

This non-credit program provides a foundation in Graphic Design. The student will receive a background in computer graphics, and introductory video, audio and web design with an understanding of the requirements and limitations of production.

**CERTIFICATE OF COMPLETION***Student Learning Outcomes:*

1. Demonstrate competency in communications techniques and visual design theory through the use of application specific software and hardware.

REQUIRED COURSES		Hours
GRC 315	Web Design.....	108
GRC 317	Adobe Illustrator.....	90
GRC 320A	Intro to Applied Graphics – Adobe Tools.....	90
GRC 320B	Intro to Applied Graphics –Media .....	90
GRC 330	Adobe InDesign/Professional Publishing.....	90
GRC 331	Intermediate Photoshop .....	90
GRC 339A	Introduction to Graphic Design .....	90
GRC 340A	Intermediate Graphic Design .....	90
		Total 738

**DIGITAL VIDEO – FORMERLY DIGITAL VIDEO OPTION****- MAJOR #8509**

This certificate prepares the student for entry level work in digital video production.

**CERTIFICATE***Student Learning Outcomes:*

1. Successfully operate a digital video camera to capture footage in a variety of lighting conditions.
2. Capture audio using a digital recorder and compile it with existing audio tracks while maintaining synchronization.

REQUIRED COURSES		Units
GRC 23	Video Editing – Adobe Premiere Pro.....	3
GRC 27	Digital Video Production .....	3
GRC 32	Cinematography.....	3
GRC 51	Storyboarding .....	1
GRC 53	Adobe After Effects .....	3
		Total 13

**DIGITAL MEDIA – FORMERLY DIGITAL MEDIA OPTION****AND MULTIMEDIA OPTION - MAJOR #8508**

This certificate provides evidence of knowledge in the preparation of images and audio for multimedia output.

**CERTIFICATE***Student Learning Outcome:*

1. Demonstrate competency in communication techniques and visual design theory through the use of application specific software and hardware.

**REQUIRED COURSES**

REQUIRED COURSES		Units
GRC 22	Digital Media.....	3
GRC 24A	Intro 2-D Animation with Adobe Animate .....	3
GRC 34	Introduction to 3-D Animation.....	3
GRC 41	Visual Communications .....	3
GRC 51	Storyboarding .....	1
GRC 53	Adobe After Effects .....	3
		Total 16

**DIGITAL MEDIA - MAJOR #8508**

This non-credit certificate provides evidence of knowledge in the preparation of images and audio for multimedia output. The non-credit feature allows students to stay abreast of near-constant change within the Digital Media realm.

**CERTIFICATE OF COMPLETION***Student Learning Outcome:*

1. Demonstrate competency in communication techniques and visual design theory through the use of application specific software and hardware.

**REQUIRED COURSES**

REQUIRED COURSES		Hours
GRC 315	Web Design.....	108
GRC 322	Digital Media.....	90
GRC 324A	Intro 2-D Animation with Adobe Animate .....	90
GRC 334	Introduction to 3-D Animation.....	90
GRC 341	Visual Communication.....	90
GRC 347	Introduction to Media Appreciation .....	54
GRC 351	Storyboarding .....	18
GRC 353	Adobe After Effects .....	90
		Total 630

**MOTION GRAPHICS - MAJOR #8512**

Motion graphic skill development in basic design, 2-D and 3-D animation using Adobe Creative Cloud suite and others. Use of Blender, Adobe Animate, and Adobe After Effects software are featured.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcome:*

1. Demonstrate competency in communications techniques and visual design theory through the use of application specific software and hardware.

**REQUIRED COURSES**

REQUIRED COURSES		Units
GRC 24A	Intro 2-D Animation with Adobe Animate .....	3
GRC 31	Intermediate Photoshop .....	3
GRC 34	Introduction to 3-D Animation.....	3
GRC 41	Visual Communications .....	3
GRC 47	Introduction to Media Appreciation .....	3
GRC 51	Storyboarding .....	1
GRC 53	Adobe After Effects .....	3
		Total 19

**MOTION GRAPHICS - MAJOR #8512**

Motion graphic skill development in basic design, 2-D and 3-D animation using Adobe Creative Cloud suite and others. Use of Blender, Adobe Animate, and Adobe After Effects software are featured.

**CERTIFICATE OF COMPLETION***Student Learning Outcome:*

1. Demonstrate competency in communications techniques and visual design theory through the use of application specific software and hardware.

REQUIRED COURSES		Hours
GRC 324A	Intro 2-D Animation with Adobe Animate .....	90
GRC 331	Intermediate Photoshop .....	90
GRC 334	Introduction to 3-D Animation.....	90
GRC 341	Visual Communication.....	90
GRC 347	Introduction to Media Appreciation .....	54
GRC 351	Storyboarding .....	18
GRC 353	Adobe After Effects .....	90
Total		522

**VIDEO PRODUCTION - MAJOR #8511**

This comprehensive program features pre-production planning, camera and audio work, post-production editing techniques and technology to complete digital video projects.

**ASSOCIATE IN SCIENCE AND  
CERTIFICATE OF ACHIEVEMENT***Student Learning Outcome:*

1. Demonstrate competency in production by successfully designing and completing video projects to specification using industry-standard software and editing techniques.

REQUIRED COURSES		Units
ENGL 15C	Creative Writing: Playwriting, <i>or</i>	
FILM 7	Introduction to Screenwriting, <i>or</i>	
JOURN 3	Newsriting .....	3
GRC 22	Digital Media.....	3
GRC 23	Video Editing - Adobe Premiere Pro.....	3
GRC 27	Digital Video Production .....	3
GRC 31	Intermediate Photoshop .....	3
GRC 32	Cinematography.....	3
GRC 38	Video Post Production .....	2
GRC 47	Introduction to Media Appreciation .....	3
GRC 51	Storyboarding .....	1
GRC 53	Adobe After Effects .....	3
GRC 55	Social Media Design .....	2
MUS 8	Audio Engineering.....	3
PHOTO 26	Lighting Principles.....	3
PHOTO 67	Intro to Aerial Multimedia.....	0.5
Total		35.5

**VIDEO PRODUCTION - MAJOR #8511**

This comprehensive program features pre-production planning, camera and audio work, post-production editing techniques and technology to complete digital video projects.

**CERTIFICATE OF COMPLETION***Student Learning Outcome:*

1. Demonstrate competency in communications techniques and visual design theory through the use of application specific software and hardware.

REQUIRED COURSES		Hours
GRC 322	Digital Media.....	90
GRC 323	Video Editing - Adobe Premiere Pro.....	90
GRC 327	Digital Video Production .....	90
GRC 331	Intermediate Photoshop .....	90
GRC 332	Cinematography.....	90
GRC 338	Video Post Production .....	36
GRC 347	Introduction to Media Appreciation .....	54
GRC 351	Storyboarding .....	18
GRC 353	Adobe After Effects .....	90
Total		648

**HEALTH INFORMATION TECHNOLOGY -  
FORMERLY HEALTH INFORMATION TECHNOLOGY: REVENUE  
MANAGEMENT AND MEDICAL RECORD TECHNOLOGY –  
MAJOR #4623**

The Health Information Technology (HIT) Program prepares students for a career working in health information management in a variety of healthcare settings. HIT professionals perform the essential functions of acquiring, analyzing, and protecting digital and traditional medical information. Through the use of technology and expertise in data integrity, confidentiality, and security, their work contributes to quality patient care. The curriculum provides a specialized emphasis in revenue management for a career in coding, auditing, and clinical documentation improvement, while also providing foundational knowledge in general health information management for job responsibilities that may include data collection, documentation analysis, quality improvement, release of information, or supervision.

The HIT Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Successful completion of the Health Information Technology Program qualifies the graduate for an associate in science degree and eligibility to take the Registered Health Information Technician (RHIT) exam administered by the American Health Information Management Association (AHIMA).



ASSOCIATE OF SCIENCE DEGREE

*Student Learning Outcomes:*

1. Apply the knowledge and skills for health information management according to the entry-level competencies of the American Health Information Management Association HIM Curriculum.
2. Pass the Registered Health Information Technician examination.

*Recommended Sequence of Courses*

First Semester – Fall		Units
*BIOL 5	Human Biology, or	
BIOL 55	Introduction to the Biology of Humans.....	3-4
CIT 15	Computer Concepts.....	3
HIT 1	Introduction to Health Information Management .....	3
HIT 10	Medical Terminology.....	3
MATH 11	Elementary Statistics .....	4
Second Semester - Spring		Units
HIT 2	Legal Aspects of Health Information .....	3
HIT 4	Disease Process .....	3
HIT 5	ICD Coding: Diagnoses .....	3
HIT 12	Health Information in Alternative Settings.....	2
MA 2	Pharmacology.....	3
Third Semester - Fall		Units
HIT 3	Quality Improvement.....	2
HIT 6	ICD Coding: Procedures.....	3
HIT 9	Hospital and Health Statistics .....	2
HIT 14	HIM Technology and Systems .....	3
Fourth Semester - Spring		Units
HIT 7	Directed Practice .....	3
HIT 8	Health Information Management and Supervision.....	3
HIT 11	CPT Coding.....	3
HIT 16	Healthcare Reimbursement.....	2
<b>Total</b>		<b>51-52</b>

*Notes:*

1. The associate degree requires the completion of the program requirements with a 2.0 or higher GPA.
2. BIOL 20 and 22, 21A and 21B, or 24 may be substituted for BIOL 5.
3. In addition to the courses listed above, all requirements for the Associate Degree in Science must be met. Refer to the Fresno City College Catalog section on certificate and degree and meet with a counselor for advisement.
4. Academic credit earned in accredited institutions of higher education or AHIMA approved schools of Health Information Technology for comparable courses will be accepted for transfer. Equivalency will be determined on the basis of catalog description, course outline, content comparison, and hour distribution. Credit by examination, when acceptable, may be required when equivalency cannot be determined.

MEDICAL CODING - MAJOR #4627

The medical coding certificate program prepares students for a position as a coder in a hospital, physician office, clinic, long-term care facility, and other healthcare settings. Coders review patient health information, analyze and extract data, and ensure appropriate codes are assigned for internal and external data reporting, billing, research, and regulatory compliance.

CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Evaluate the content of patient health records and assign diagnostic and procedure codes following regulatory guidelines.
2. Use computer technology and applications as a coding professional would in the regular course of business for HIM functions such as the electronic health record, encoding, abstracting, billing, and revenue management.

*Recommended Sequence of Courses*

First Semester		Units
*BIOL 5	Human Biology, or	
BIOL 55	Introduction to the Biology of Humans .....	3-4
HIT 1	Introduction to Health Information Management .....	3
HIT 10	Medical Terminology.....	3
Second Semester		Units
CIT 15	Computer Concepts .....	3
HIT 4	Disease Process.....	3
HIT 5	ICD Coding: Diagnoses.....	3
Third Semester		Units
HIT 6	ICD Coding: Procedures .....	3
HIT 14	HIM Technology and Systems .....	3
MA 2	Pharmacology .....	3
Fourth Semester		Units
HIT 11	CPT Coding .....	3
HIT 15	Medical Coding Directed Practice .....	1
HIT 16	Healthcare Reimbursement.....	2
<b>Total</b>		<b>33-34</b>

*Note:*

\* BIOL 20 and 22, or 21A and 21B, or 24 may be substituted for BIOL 5

## HEATING, VENTILATION, AND AIR CONDITIONING – FORMERLY AIR CONDITIONING

### HVAC TECHNOLOGY II

– FORMERLY HVAC TECHNOLOGY III AND AIR CONDITIONING  
 – MAJOR #8042

Students who successfully complete the HVAC Technology II program have been equipped with skills for employment as HVAC (Heating, Ventilation, and Air Conditioning) maintenance, diagnostic, and installation technicians. The curriculum incorporates cognitive and hands-on assignments that develop a fundamental understanding of the installation, operation, and troubleshooting of HVAC equipment and air distribution systems. Additional emphasis on communication skills and general education prepare students for leadership roles once several years of work experience have been achieved.

#### ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Analyze and strategically document air, refrigerant, fuel, and electrical measurements in the diagnosis and repair of heating and cooling equipment.
2. Demonstrate HVAC skills through the achievement of applicable industry certification(s).
3. Prepare for a leadership role in the HVAC industry upon achievement of work experience.

REQUIRED COURSES		Units
HVAC 50	Principles of HVAC.....	2
HVAC 51	Electricity for HVAC.....	6.5
HVAC 52	Heating Systems .....	6.5
HVAC 53	System Analysis and Regulations.....	6.5
HVAC 54	Brazing and Motor Technology.....	6.5
Total		28

### HVAC TECHNOLOGY I – FORMERLY AIR CONDITIONING, COMMERCIAL AIR CONDITIONING, HEATING, AND DUCT SYSTEMS – MAJOR #8041

Students who successfully complete the HVAC Technology I program are equipped with skills for entry-level employment as HVAC (Heating, Ventilation, and Air Conditioning) maintenance, diagnostic, and installation technicians. The curriculum incorporates cognitive and hands-on assignments that develop a fundamental understanding of the installation, operation, and troubleshooting of HVAC equipment and air distribution systems.

### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Analyze air, refrigerant, fuel, and electrical measurements in the diagnosis and repair of heating and cooling equipment.
2. Demonstration of entry-level HVAC skills through the achievement of applicable industry certification.

REQUIRED COURSES		Units
HVAC 50	Principles of HVAC.....	2
HVAC 51	Electricity for HVAC.....	6.5
HVAC 52	Heating Systems .....	6.5
HVAC 53	System Analysis and Regulations.....	6.5
HVAC 54	Brazing and Motor Technology.....	6.5
Total		28

### RETA-CARO CERTIFICATION READY

– MAJOR #8044

Upon completion of required courses, the RETA-CIRO Certification ready certificate holder is prepared for successful completion of the CARO (Certified Assistant Refrigeration Operator) exam by RETA (Refrigeration Engineers and Technicians Association). CARO is a highly acclaimed industrial refrigeration certification, which qualifies refrigeration technicians to work as an apprentice with a CIRO (Certified Industrial Refrigeration Operator) journeyman. Of all the refrigeration sectors, the industrial refrigeration sector often offers the refrigeration technician the greatest responsibility coupled with appealing compensation packages.

#### CERTIFICATE OF COMPLETION

*Student Learning Outcomes:*

1. Successful completion of the Refrigeration Engineers and Technicians Association (RETA) Industrial Refrigeration I - Electronic Test.
2. Successfully complete the EPA section 608 Technician Certification, thereby qualifying as a Type I, II, III and/or Universally certified (70% pass).

REQUIRED COURSES		Hours
HVAC 350	RETA/CARO Ready - EPA Section 608 Technician Certification.....	54
HVAC 351	RETA/CARO Ready - Industrial Refrigeration I....	54
Total		108

## HISTORY FOR TRANSFER – MAJOR #7380

History is our changing perspective on the past. Historians attempt not only to understand the causes and significance of human actions in the past but also to interpret those past actions to others, through teaching, publications, lectures, exhibits, documentaries, and conversations. Knowledge of history provides insight into human nature, enhances our understanding of the present, and guides choices for the future. The Associate in Arts in History for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the Associate in Arts in History for Transfer degree, students must complete 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 units within the major, with a minimum GPA of 2.0. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Analyze and evaluate the validity and significance of historical information from multiple primary and secondary sources.
2. Demonstrate a familiarity with the main figures, events and concepts in the histories of multiple societies.
3. Assess the relative significance of several factors (e.g. race, class, gender, technological change) in shaping the history of multiple societies.

REQUIRED UNITED STATES HISTORY COURSES		Units
HIST 11	History of the United States to 1877 .....	3
HIST 12	History of the United States since 1877.....	3
LIST A - Select one of the following:		Units
HIST 1	Western Civilization to 1648 .....	3
HIST 20	World History I, to 1600.....	3
LIST B - Select one of the following:		Units
HIST 2	Western Civilization since 1648 .....	3
HIST 23	World History II, since 1500.....	3
LIST C - Select one of the following:		Units
HIST 17	History of the Muslim World to 1405 .....	3
HIST 20	World History I, to 1600.....	3
HIST/WSTS 22	History of American Women.....	3
HIST 23	World History II, since 1500.....	3
HIST 29	History of Mexico, Colonial to Contemporary Period .....	3
HIST/AFRAM 34	History of the American Civil Rights Movement ...	3

*History 20 or 23 may be used for list C only if not used in lists A or B.*

LIST D - Select one from the following:	Units	
HIST 3	History of Ancient Rome.....	3
HIST 15	History of the British Isles .....	3
HIST 18	History of Ancient Greece.....	3
HIST 21	United States Civil War .....	3
HIST 25	History of Religion in the United States.....	3
HIST 30	California History .....	3
	Total	18

## HONORS PROGRAM

### LEON S. PETERS HONORS PROGRAM

– MAJOR #5331

A Leon S. Peter Certificate in Honors will be awarded to Honors students who successfully complete a minimum of 15 credits of Honors courses including one colloquium unit with an overall GPA of 3.2 or better.

#### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

*Because this is a comprehensive general education program, students who complete the Honors Certificate program will be able to:*

1. Demonstrate an understanding and appreciation of social, political, and economic institutions within a historical perspective.
2. Express an understanding of the relationship between science and other human activities.
3. Articulate an understanding of the relationships between the arts, the humanities and themselves.
4. Write clear, logically organized essays using expository and argumentative modes and applying conventions of documentation when appropriate.
5. Apply logical reasoning to make decisions, solve problems, explain conclusions, and evaluate evidence.

FIRST SEMESTER REQUIRED COURSE		Units
*ENGL 1AH	Honors Reading and Composition .....	4

*\* (Students who have completed ENGL 1A or equivalent should choose 15 units from elective courses.)*

ELECTIVE COURSES: Select 11 units with at Least One Colloquium Unit

Course		Units
ANTHRO 2H	Honors Cultural Anthropology .....	3
ART 5H	Honors Art History Ancient to Medieval .....	3
ART 6H	Honors Art History Renaissance to Modern.....	3
COMM 8H	Honors Group Communication .....	3
ECON 40H	Honors Introduction to Microeconomics.....	3
ECON 50H	Honors Introduction to Macroeconomics .....	3
ENGL 3H	Honors Critical Reading & Writing.....	3
HIST 12H	Honors History of the United States since 1877 .....	3
HONORS 1A	Honors Science Colloquium .....	1
HONORS 1C	Honors Humanities Colloquium.....	1
HONORS 1D	Honors Business & Economics Colloquium .....	1
HONORS 1E	Honors Social Science Colloquium.....	1
HONORS 1F	Honors Phi Theta Kappa Colloquium .....	1
MATH 11H	Honors Elementary Statistics.....	4
PHIL 1AH	Honors Theories of Knowledge and Reality .....	3
PHIL 1CH	Honors Ethics.....	3
PHIL 2H	Honors Critical Reasoning and Analytic Writing .....	3
POLSCI 2H	Honors American Government .....	3
PSY 2H	Honors General Psychology.....	3
SOC 1AH	Honors Introduction to Sociology .....	3
	Total	15

**HUMAN SERVICES**

**ALCOHOLISM AND DRUG ABUSE COUNSELING OPTION – MAJOR #7951**

This degree is designed for students interested in working in the field of Substance Use Disorders. Completion of the total program will broaden a candidate’s understanding and assist in preparation needed to enter the field.

These core classes of the degree are accredited by the California Association for Alcohol/Drug Educators (CAADE) and recognized by the other counselor certification organizations in California. The degree offers course work leading to a certificate of achievement, and an AS degree in Alcoholism and Drug Abuse Counseling.

**ASSOCIATE IN SCIENCE DEGREE**

*Student Learning Outcomes:*

1. Demonstrate a fundamental working knowledge of the Substance Use Disorder Treatment system.
2. Be prepared for entry-level employment in a Substance Use Disorder program.
3. Demonstrate an understanding of the 12 core competencies and their application to the treatment of substance use disorders.

**REQUIRED CORE COURSES** Units

HS/SOC 10	Introduction to Aging Studies.....	3
HS 18	Alcohol and Drug Abuse Counseling: Professional and Personal Growth .....	2
HS 19B	Work Experience (Cooperative), Occupational .....	6
HS 20	Introduction to Social Welfare .....	3
HS 24	Fund of Interviewing and Counseling.....	3
HS 40	Alcohol and Drug Abuse Counseling: Law and Ethics, Prevention, Education, Outreach and Referral.....	3
HS 42	Introduction to Alcohol and Drug Counseling .....	3
HS 43	Alcohol and Drug Abuse Counseling: Case Management.....	3
HS 44	Drug Use: Physical and Psychological Effects.....	3
<b>COURSE OPTIONS: Select 3 Courses</b>		Units
AFRAM 1	Introduction to African American Studies, <i>or</i>	
AMIND 34	American Indian in Contemporary Society, <i>or</i>	
CLS/SOC 14	Sociology of the Mexican American Community .....	3
CHDEV 5	Parent Education .....	3
CHDEV/PSY 12	Child Abuse .....	3
HS/WSTS 25	Assertiveness Training .....	2
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
PSY 5	Social Psychology.....	3
PSY 16	Abnormal Psychology .....	3
PSY 25	Human Sexuality .....	3
PSY 33	Personal and Social Adjustment.....	3
SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology .....	3
SOC 1B	Critical Thinking about Social Problems .....	3
SOC 2	American Minority Groups .....	3
SOC/WSTS 5	Sociology of Rape .....	3
SOC/WSTS 7	Domestic Violence: Abuse within the Family.....	3
SOC 32	Introduction to Marriage and Family .....	3
WSTS 10	Changing Roles of Women.....	3
	Total	37-38

*Notes:*

1. An AS degree will be awarded to any Alcohol and Drug Abuse Counseling Certificate candidate who successfully completes a total of 60 units. The 60 units must include associate degree requirements and 37-38 units of course work in the major as listed above.
2. Associate degree requirements are listed on page 37. General Education requirements for transfer certification are on page 36.

## ALCOHOLISM AND DRUG ABUSE COUNSELING OPTION – MAJOR #7951

This certificate is designed for students interested in working in the field of substance use disorders. Completion of the total certificate of achievement will broaden a candidate's understanding and assist in preparation needed to enter the field.

This certificate is accredited by the California Association for Alcohol/Drug Educators (CAADE) and recognized by the other three certifying organizations in California.

The Alcoholism and Drug Abuse Counseling Certificate program offers course work leading to a certificate of achievement.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Upon completion, the student will be eligible to take the State of California approved test to become an Alcohol and Other Drug Counselor.
2. Students will take and successfully complete the State of California approved written exam from one of the 3 certifying organizations.

REQUIRED CORE COURSES		Units
HS/SOC 10	Introduction to Aging Studies.....	3
HS 18	Alcohol and Drug Abuse Counseling: Professional and Personal Growth .....	2
HS 19B	Work Experience (Cooperative), Occupational .....	6
HS 20	Introduction to Social Welfare .....	3
HS 24	Fund of Interviewing and Counseling.....	3
HS 40	Alcohol and Drug Abuse Counseling: Law and Ethics, Prevention, Education, Outreach and Referral .....	3
HS 42	Introduction to Alcohol and Drug Counseling .....	3
HS 43	Alcohol and Drug Abuse Counseling: Case Management.....	3
HS 44	Drug Use: Physical and Psychological Effects.....	3
COURSE OPTIONS: Select 3 Courses		Units
AFRAM 1	Introduction to African American Studies, <i>or</i>	
AMIND 34	American Indian in Contemporary Society, <i>or</i>	
CLS/SOC 14	Sociology of the Mexican American Community .....	3
CHDEV 5	Parent Education .....	3
CHDEV/PSY 12	Child Abuse .....	3
HS/WSTS 25	Assertiveness Training .....	2
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
PSY 5	Social Psychology.....	3
PSY 16	Abnormal Psychology .....	3
PSY 25	Human Sexuality .....	3
PSY 33	Personal and Social Adjustment.....	3
SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology .....	3
SOC 1B	Critical Thinking about Social Problems .....	3
SOC 2	American Minority Groups .....	3

SOC/WSTS 5	Sociology of Rape.....	3
SOC/WSTS 7	Domestic Violence: Abuse within the Family.....	3
SOC 32	Introduction to Marriage and Family .....	3
WSTS 10	Changing Roles of Women.....	3
		Total 37-38

## ELDER CARE HUMAN SERVICES - MAJOR #7634

The Certificate of Achievement in Elder Care Human Services is designed to prepare students for entry level work in social services settings with adults, aged 65 years and older or, with additional completed general education course work, to transfer as a junior to a baccalaureate degree program in Social Work. This Certificate is for a person who has a strong desire to provide human services to older adults. These introductory courses will give the student a good fundamental working knowledge of the social services system addressing the needs of older adults.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Apply Systems Theory, the Strengths Perspective, and National Association of Social Workers Code of Ethics to determine the intertwined needs of an elder client and construct a case plan.
2. Illustrate the importance of culture in the functioning of and service provision to an elder client.
3. Analyze challenges encountered by elder care human services providers, including Internal and External barriers.
4. Identify and distinguish social services, health care, legal, and financial services providers available to the elderly.

REQUIRED COURSES		Units
HS 10	Introduction to Aging Studies.....	3
HS 11	Elder Care Human Services.....	3
HS 19A	Work Experience (Cooperative), Occupational .....	3
HS 20	Introduction to Social Welfare .....	3
HS 24	Fundamentals of Interviewing and Counseling.....	3
HS 44	Drug Use: Physical and Psychological Effects.....	3
		Total 18

## PRE-SOCIAL WORK OPTION – FORMERLY SOCIAL WORK OPTION - MAJOR #7633

This degree is designed to prepare students for entry-level employment in a social service setting or to transfer as a junior to a baccalaureate degree program in Social Work. This degree is for the person who has a strong desire to help people who traditionally have been underrepresented within the larger society and require interventions and assistance in increasing control of their personal destinies. These introductory courses will give the student a good fundamental working knowledge of the social services system.

The program offers course work leading to a certificate of achievement and an associate in science degree in Human Services: Pre-Social Work. Students must take the required courses listed in the Core (see below), and select 12 units from the list of options.

ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Demonstrate a fundamental working knowledge of the social services system.
2. Be prepared for entry-level employment in a social service setting.
3. Understand who are the underrepresented within our society and what might be appropriate interventions to assist them.
4. Apply the multiple perspectives of a broad Liberal Arts foundation to their analysis of social problems.

REQUIRED CORE COURSES

	Units
CIT 12	Computer Literacy, <i>or</i>
AT 10	Technical Computer Applications, <i>or</i>
BT 1	Computer Document Processing I, <i>or</i>
CIT 15	Computer Concepts ..... 3
HS/SOC 10	Introduction to Aging Studies..... 3
HS 19A	Work Experience (Cooperative), Occupational..... 3
HS 20	Introduction to Social Welfare ..... 3
HS 24	Fundamentals of Interviewing and Counseling..... 3
HS 30	Group and Community Social Services..... 3

COURSE OPTIONS: Select 12 Units

	Units
AFRAM 1	Introduction to African American Studies ..... 3
AFRAM 2	African American Cultural Adaptation..... 3
AMIND 31	American Indian Culture..... 3
AMIND 34	The American Indian in Contemporary Society ..... 3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society..... 3
ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology ..... 3
ASAMER 25	Asian American Social Issues ..... 3
ASL 1	Beginning American Sign Language ..... 4
CHDEV 5	Parent Education ..... 3
CHDEV 30	Child, Family and Community, <i>or</i> SOC 31 Child in Society: A Social Problems Approach ..... 3
CHDEV/PSY 38	Lifespan Development..... 3
CHDEV/PSY39	Child Growth and Development..... 3
CLS 11	Introduction to Chicano-Latino Studies..... 3
CLS 13	Politics and the Chicano-Latino Community..... 3
COMM 1	Introduction to Public Speaking, <i>or</i> COMM 4 Persuasion, <i>or</i> COMM 8 Group Communication..... 3
COMM 25	Argumentation, <i>or</i> PHIL 6 Introduction to Logic ..... 3
ECON 25	Introduction to Economics, <i>or</i> ECON 40/40H Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics, <i>or</i> ECON 50/50H Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics..... 3

FN 35	Nutrition and Health, <i>or</i> FN/WSTS 43 Women's Nutrition ..... 2-3
HMONG 1	Beginning Hmong ..... 5
HS/WSTS 25	Assertiveness Training ..... 2
HS 44	Drug Use: Physical and Psychological Effects..... 3
PHIL 1A/1AH	Theories of Knowledge and Reality, <i>or</i> Honors Theories of Knowledge and Reality, <i>or</i> Ethics, <i>or</i> PHIL 1C/1CH Honors Ethics ..... 3
SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology ..... 3
SOC/WSTS 5	Sociology of Rape ..... 3
SOC/WSTS 7	Domestic Violence: Abuse Within the Family ..... 3
SOC 32	Introduction to Marriage and Family ..... 3
SPAN 1	Beginning Spanish ..... 5
WSTS 10	Changing Roles of Women..... 3
Total 30	

*Note:* An associate in science degree will be awarded on the successful completion of 60 units. See page 37 for associate degree requirements. General education requirements for transfer certification are on page 36.

For career options, consult with Human Services staff.

PRE-SOCIAL WORK OPTION – FORMERLY SOCIAL WORK OPTION - MAJOR #7633

This certificate of achievement is designed to prepare students for entry-level employment in a social service setting or with additional general education courses, to transfer as a junior to a baccalaureate degree program in social work. This program is for the person who has a strong desire to help people who traditionally have been underrepresented within the larger society and require interventions and assistance in increasing control of their personal destinies. These introductory courses will give the student a good fundamental working knowledge of the social services system.

The certificate of achievement offers course work leading to a certificate of achievement in Human Services: Pre-Social Work Option. Students must take the required courses listed in the Core (see below), and select 12 units from the list of options.

CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Demonstrate a fundamental working knowledge of the social services system.
2. Be prepared for entry-level employment in a social service setting.
3. Understand who are the underrepresented within our society and what might be appropriate interventions to assist them.
4. Apply the multiple perspectives of a broad liberal arts foundation to their analysis of social problems.

REQUIRED CORE COURSES		Units
CIT 12	Computer Literacy, <i>or</i>	
AT 10	Technical Computer Applications, <i>or</i>	
BT 1	Computer Document Processing I, <i>or</i>	
CIT 15	Computer Concepts .....	3
HS/SOC 10	Introduction to Aging Studies.....	3
HS 19A	Work Experience (Cooperative), Occupational.....	3
HS 20	Introduction to Social Welfare .....	3
HS 24	Fundamentals of Interviewing and Counseling.....	3
HS 30	Group and Community Social Services.....	3
COURSE OPTIONS: Select 12 Units		Units
AFRAM 1	Introduction to African American Studies .....	3
AFRAM 2	African American Cultural Adaptation.....	3
AMIND 31	American Indian Culture.....	3
AMIND 34	The American Indian in Contemporary Society .....	3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society.....	3
ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology .....	3
ASAMER 25	Asian American Social Issues .....	3
ASL 1	Beginning American Sign Language .....	4
CHDEV 5	Parent Education .....	3
CHDEV 30	Child, Family and Community, <i>or</i> SOC 31 Child in Society .....	3
CHDEV/PSY 38	Lifespan Development.....	3
CHDEV/PSY39	Child Growth and Development.....	3
CLS 11	Introduction to Chicano-Latino Studies.....	3
CLS 13	Politics and the Chicano-Latino Community.....	3
COMM 1	Introduction to Public Speaking <i>or</i> COMM 4 Persuasion, <i>or</i> COMM 8 Group Communication.....	3
COMM 25	Argumentation, <i>or</i> PHIL 6 Introduction to Logic.....	3
ECON 25	Introduction to Economics, <i>or</i> ECON 40/40H Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics, <i>or</i> ECON 50/50H Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics.....	3
FN 35	Nutrition and Health, <i>or</i> FN/WSTS 43 Women's Nutrition .....	2-3
HMONG 1	Beginning Hmong .....	5
HS/WSTS 25	Assertiveness Training .....	2
HS 44	Drug Use: Physical and Psychological Effects.....	3
PHIL 1A/1AH	Theories of Knowledge and Reality, <i>or</i> Honors Theories of Knowledge and Reality, <i>or</i> PHIL 1C/1CH Ethics, <i>or</i> Honors Ethics .....	3
SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology .....	3
SOC/WSTS 5	Sociology of Rape .....	3
SOC/WSTS 7	Domestic Violence: Abuse within the Family.....	3

SOC 32	Introduction to Marriage and Family .....	3
SPAN 1	Beginning Spanish .....	5
WSTS 10	Changing Roles of Women.....	3
Total		30

*For career options, consult with Human Services staff.*

## SOCIAL WORK AND HUMAN SERVICES FOR TRANSFER – MAJOR #7635

An Associate in Arts in Social Work and Human Services for Transfer degree, is designed for students who plan to complete a Bachelor's degree in a similar major at a CSU campus. The degree will acquaint students with the fundamentals of the human services system and the profession of Social Work, including introduction to the theories, principles, and values on which human services are offered and social work is practiced in the United States. To earn the Associate of Arts in Social Work/Human Services for Transfer, students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades of "C" or higher in each course taken to fulfill the major. Local graduation requirements are not necessary to complete the transfer degree. Students should consult with a knowledgeable academic counselor for more information on transfer requirements and university admission.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate a fundamental working knowledge of the social services system and social work as a profession.
2. Be prepared for entry level employment in a social services setting.
3. Apply the multiple perspectives of a broad liberal arts foundation to understanding and responding to human needs and social problems.

REQUIRED CORE COURSES		Units
BIOL 20	Human Anatomy, <i>or</i> BIOL 22 Human Physiology, <i>or</i> BIOL 21A Human Anatomy & Physiology I, <i>and</i> BIOL 21B Human Anatomy & Physiology II .....	4-9
ECON 40/40H	Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics, <i>or</i>	
ECON 50/50H	Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics.....	3
HS 19A	Work Experience (Cooperative), Occupational.....	3
HS 20	Introduction to Social Welfare .....	3
MATH 11	Elementary Statistics, <i>or</i> MATH 42 Statistics for the Behavioral Sciences.....	4
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
SOC 1A/AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology .....	3

LIST A - Select two (2) courses:		Units
ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology .....	3
CHDEV 30	Child, Family and Community .....	3
CHDEV/PSY 38	Lifespan Development .....	3
CHDEV/PSY 39	Child Growth and Development .....	3
CRIM 1	Introduction to Criminology .....	3
ENGL 3/3H	Critical Reading & Writing, <i>or</i> Honors Critical Reading & Writing .....	3
PSY 16	Abnormal Psychology .....	3
SOC 1B	Critical Thinking about Social Problems .....	3
SOC 2	American Minority Groups .....	3
Total		29-34

## INDUSTRIAL TECHNOLOGY

– FORMERLY INDUSTRIAL ARTS AND TECHNOLOGY

— MAJOR #8992

This degree is designed for students that have a desire to learn about the different subject areas within the Applied Technology Division. A student could also transfer to a four year university and earn a Bachelor of Science degree in Industrial Technology.

### ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Create 3D solid models using various extrusion methods.
2. Create and modify files using Microsoft Office programs.

REQUIRED COURSES		Units
AT 10	Technical Computer Applications .....	3
CADD 16	3D Solid Modeling I .....	3
WELD 1	Exploring Welding/Metals .....	3
RECOMMENDED ELECTIVES (6 UNITS MINIMUM)		Units
AUTOT 9	Automotive Essentials .....	3
CADD 14	2D CAD I .....	3
CAM 5	CNC Operation & Maintenance for Machinist .....	2.5
CAM 10	CNC Mill Programming & Operation I .....	4
DRAFT 12	Drafting Practices .....	3
EST 51	Direct Current Fundamentals of Electronics .....	3
EST 52	Alternating Current Fundamentals .....	3
EST 53	Lab Safety Practices .....	2
EST 54	Integrated Devices .....	3
EST 55A	Digital Concepts .....	3
EST 56B	Motor Controls .....	3
EST 58	Programmable Logic Controllers .....	3
EST 59	Instrumentation Systems .....	3
EST 60	A+ PC Maintenance and Repair .....	3
EST 61	Networking Fundamentals .....	3
EST 62	Commercial & Industrial Networking .....	3
WELD 2A	Introduction to Welding Technology .....	6
Total		15

## JOURNALISM – MAJOR #5351

The Journalism Major at Fresno City College is designed to introduce students to the mass media, both as consumers and as potential practitioners. The program focuses on the theory and practice of gathering, processing, and delivering news and that prepares individuals to be professional print journalists, news editors, and news managers. It includes instruction in news writing and editing; reporting; photojournalism; layout and graphic design; journalism law and policy; professional standards and ethics; and journalism history and criticism. All students are encouraged to meet with a counselor.

### ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Demonstrate an understanding of journalistic responsibility.
2. Analyze the impact of mass media on American society and its diverse communities.
3. Describe how the major mass media operate and comprehend their contribution to American society and the world.
4. Write and edit news stories.
5. Meet journalistic deadlines.
6. Demonstrate the uses of photography, graphics and newspaper layout in media productions.

REQUIRED CORE COURSES		Units
JOURN 1	Introduction to Mass Communication .....	3
JOURN 3	Newswriting .....	3
JOURN 16	Race, Gender, and the Media .....	3

DEPARTMENT PUBLICATION REQUIREMENT (Select six units or two courses):		Units
JOURN 4	Writing for the College Newspaper .....	3
JOURN 6	Magazine Production .....	3
JOURN 11A	Beginning Media Writing Practicum .....	3
JOURN 11B	Intermediate Media Writing Practicum .....	3
JOURN 11C	Advanced Media Writing Practicum .....	3
JOURN 11D	Editorial Leadership .....	3
JOURN 12	Online Newspaper Staff .....	3

Complete a total of twelve (12) units from the courses listed below:		Units
ART 5	Art History Ancient to Medieval .....	3
GRC 41	Visual Communications .....	3
JOURN 2	Interpreting Current Events .....	3
JOURN 13	Advanced Reporting and Writing .....	3
JOURN 14	Multimedia Reporting .....	3
JOURN 15	Basic Editing for Journalists .....	3
JOURN 19	Work Experience .....	1-8
PHIL 1C	Ethics .....	3
Total		27



## JOURNALISM FOR TRANSFER – MAJOR #5355

The Associate in Arts in Journalism for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the Associate in Arts in Journalism for Transfer degree, students must complete 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate an understanding of journalistic responsibility.
2. Describe how the major mass media operate and analyze its Demonstrate the uses of photography, graphics and multimedia tools In media productions.
3. Report, write and edit news stories for multimedia and meet journalistic deadlines.

#### CORE COURSES (3 courses or 9 units): Units

JOURN 1	Introduction to Mass Communication .....	3
JOURN 3	Newswriting .....	3
JOURN 11A	Beginning Media Writing Practicum, <i>or</i>	
JOURN 4	Writing for the College Newspaper.....	3

#### LIST A - Select 3 units or 1 course from the following: Units

JOURN 11B	Intermediate Media Writing Practicum .....	3
JOURN 11C	Advanced Media Writing Practicum .....	3
JOURN 11D	Editorial Leadership .....	3
JOURN 13	Advanced Reporting and Writing.....	3
JOURN 14	Multimedia Reporting.....	3

#### LIST B - Select 6-7 units or 2 courses from the following: Units

COMM 1	Introduction to Public Speaking .....	3
COMM 25	Argumentation.....	3
ENGL 3/3H	Critical Reading & Writing, <i>or</i>	
	Honors Critical Reading & Writing.....	3
ECON 40/40H	Introduction to Microeconomics, <i>or</i>	
	Honors Introduction to Microeconomics, <i>or</i>	
ECON 50/50H	Introduction to Macroeconomics, <i>or</i>	
	Honors Introduction to Macroeconomics.....	3
JOURN 16	Race, Gender and the Media.....	3
MATH/PSY 42	Statistics for the Behavioral Sciences, <i>or</i> .....	4
MATH 11	Elementary Statistics, <i>or</i>	
DS 23	Business Statistics .....	3
PHIL 6	Introduction to Logic.....	3
POLSCI 2/2H	American Government, <i>or</i>	
	Honors American Government .....	3

Total 18-19

*Note: Students should avoid accumulating additional journalism units as they complete their AA-T degree (which requires 60 units). Additional units will create graduation problems at the upper division. Many programs require 80 units outside of journalism for the degree and each CSU may require up to 28 upper division units in the major.*

## KINESIOLOGY

### KINESIOLOGY – MAJOR #4555

Kinesiology studies the function and performance of the human body through the sciences of anatomy, physiology, biomechanics, and psychology. With a diverse curriculum, students can choose from courses such as anatomy and physiology, health and wellness, nutrition, sports psychology, athletic training, and coaching. Students will be presented with both theoretical and practical applications of the science of kinesiology, as it pertains to exercise, sport, and physical activity. Coursework in this field is intended to improve students' knowledge about health, fitness, and lifetime wellness as they relate to personal and community well-being. A degree in kinesiology has become a valuable asset in pursuing relevant and rewarding professional careers.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. After completion of this program, the student will have the basic knowledge of the general foundation of kinesiology.
2. This course of study provides the student a background to pursue a career in the field of kinesiology.

#### REQUIRED COURSES Units

HLTH 1	Contemporary Health Issues .....	3
HLTH 2	First Aid and Safety, <i>or</i>	
PE 20	Care and Prevention in Athletic Populations.....	3-4
PE 62	Introduction to Kinesiology .....	3
Select a minimum of 6 units from the following courses		Units
BIOL 5	Human Biology .....	4
BIOL 20	Human Anatomy, <i>or</i>	
BIOL 21A	Human Anatomy & Physiology I.....	4
BIOL 22	Human Physiology, <i>or</i>	
BIOL 21B	Human Anatomy & Physiology II.....	5
FN 35	Nutrition and Health .....	3
FN 41	Sports Nutrition.....	2
HLTH 3	Concepts in Health and Fitness.....	3
PE 24	Sports Officiating .....	2
PE 26	Sports Psychology .....	3
PE 28	Foundations of Coaching .....	3

Fitness/Wellness Activities: Minimum of one course (1 unit)		Units
DANCE 9	Dance Conditioning .....	1
DANCE 10A	Beginning Modern Dance Technique.....	1
PE 6	Fitness and Health.....	1
PE 9	Circuit Training .....	1
PE 15A	Weight Training (Women).....	1
PE 15B	Weight Training (Men).....	1
PE 15C	Weight Training (Coed) .....	1
PE 17	Hatha Yoga.....	1
PE 27	High-Intensity Cardio Interval Training.....	1
PE 29C	Off-Season Conditioning for Badminton .....	1
PE 30C	Off-Season Conditioning for Baseball .....	1
PE 31C	Off-Season Conditioning for Basketball .....	1
PE 33C	Off-Season Conditioning for Football.....	1
PE 34C	Off-Season Conditioning for Golf.....	1
PE 36C	Off-Season Conditioning for Soccer.....	1
PE 37C	Off-Season Conditioning for Softball .....	1
PE 38C	Off-Season Conditioning for Tennis .....	1
PE 39C	Off-Season Conditioning for Track and Field.....	1
PE 40C	Off-Season Conditioning for Volleyball .....	1
PE 41C	Off-Season Conditioning for Men's Wrestling .....	1
PE 42C	Off-Season Conditioning for Water Polo .....	1
PE 43C	Off-Season Conditioning for Swimming & Diving .....	1
PE 44C	Off-Season Conditioning for Sand Volleyball .....	1
PE 45	Performance Training and Conditioning Techniques for Intercollegiate Athletics .....	1
PE 46C	Off-Season Conditioning for Women's Wrestling.....	1
PE 70	Fitness Aerobics.....	1
PE 72	Spinning for Fitness.....	1
Individual/Dual Sports: Minimum one course (1-3 units)		Units
PE 4	Badminton.....	1
PE 4B	Intermediate Badminton .....	1
PE 7	Golf .....	1
PE 8	Basic Self Defense.....	1
PE 12	Swimming.....	1
PE 12B	Intermediate Swimming.....	1
PE 13	Tennis .....	1
PE 13B	Intermediate Tennis .....	1
PE 29B	Competitive Badminton.....	3
PE 32B	Competitive Cross Country .....	3
PE 34B	Competitive Golf .....	3
PE 38B	Competitive Tennis.....	3
PE 39B	Competitive Track and Field .....	3
PE 41B	Competitive Men's Wrestling.....	3
PE 43B	Competitive Swimming & Diving .....	3
PE 44B	Competitive Sand Volleyball .....	3
PE 46B	Competitive Women's Wrestling.....	3

Team Sports: Minimum one course (1-3 units)		Units
PE 5	Basketball.....	1
PE 14	Volleyball .....	1
PE 30B	Competitive Baseball.....	3
PE 31B	Competitive Basketball .....	3
PE 33B	Competitive Football .....	3
PE 35B	Cheer and Stunt .....	2
PE 36B	Competitive Soccer .....	3
PE 37B	Competitive Softball .....	3
PE 40B	Competitive Volleyball .....	3
PE 42B	Competitive Water Polo.....	3
PE 71	Soccer.....	1
	Total	18-23

### KINESIOLOGY FOR TRANSFER – MAJOR #4555

An Associate in Arts in Kinesiology for Transfer is designed for students who plan to complete a bachelor's degree in Kinesiology at a CSU or UC campus. An Associate in Arts in Kinesiology prepares students to pursue studies in fields such as kinesiology/physical education credential programs, exercise science, athletic training/sports medicine, and sports administration. To earn the Associate in Arts in Kinesiology for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 22-23 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

1. Recognize and evaluate the importance of a healthy and physically active lifestyle.
2. Identify the major systems of the human body as they relate to movement and activity by explaining and applying the principles of anatomy and physiology.

REQUIRED CORE COURSES: 15 units		Units
BIOL 20	Human Anatomy, <i>and</i>	
BIOL 22	Human Physiology, <i>or</i>	
BIOL 21A	Human Anatomy & Physiology I, <i>and</i>	
BIOL 21B	Human Anatomy & Physiology II .....	9
HLTH 2	First Aid and Safety .....	3
PE 62	Introduction to Kinesiology .....	3

**REQUIRED CORE COURSES: 3 units**

Select a minimum of 3 different courses from the following for a total of 3 or more units.

	Units
PE 3 Archery.....	1
PE 4 Badminton.....	1
PE 5 Basketball.....	1
PE 7 Golf .....	1
PE 12 Swimming.....	1
PE 13 Tennis.....	1
PE 14 Volleyball .....	1
PE 15A Weight Training (Women).....	1
PE 15B Weight Training (Men).....	1
PE 15C Weight Training (Coed) .....	1
PE 17 Hatha Yoga .....	1

**ELECTIVES: 3 units**

Select a minimum of 1 course from the following for a total of 3 or more units.

	Units
CHEM 1A General Chemistry.....	5
DS 23 Business Statistics .....	3
MATH 11 Elementary Statistics .....	4
PHYS 2A General Physics 1 .....	4
Total	21-23

**LAW****LAW, PUBLIC POLICY, AND SOCIETY FOR TRANSFER – MAJOR #8770**

The coursework required to earn an Associate in Arts in Law, Public Policy, and Society for Transfer has been identified as good preparation for law school upon completion of a bachelor's degree. This interdisciplinary area of emphasis emphasizes the development of communication skills, introduces students to the legal field, and prepares students for further study in a variety of majors. Students who opt to pursue this course of study are encouraged to engage in further exploration of one or more specific majors as they select electives for degree completion. To earn the Associate in Arts in Law, Public Policy and Society for Transfer students must complete at least 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements, and at least 18 units within the major. Students must maintain a minimum 2.0 GPA, including grades C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor for more information on transfer requirements and university admission.

**ASSOCIATE IN ARTS DEGREE***Student Learning Outcomes:*

1. Demonstrate independent and critical thinking regarding important topics in law.
2. Demonstrate independent and critical thinking regarding important topics in law.

**REQUIRED COURSES**

	Units
AMST 11 Law and Democracy .....	3
BA 18 Business and the Legal Environment.....	4
COMM 4 Persuasion, <i>or</i>	
ENGL 3/3H Critical Reading & Writing, <i>or</i>	
Honors Critical Reading & Writing, <i>or</i>	
PHIL 2/2H Critical Reasoning and Analytic Writing, <i>or</i>	
Honors Critical Reasoning and Analytic Writing.....	3
COMM 25 Argumentation.....	3
CRIM 6 Concepts of Criminal Law .....	3
ENGL 1A/1AH Reading and Composition, <i>or</i>	
Honors Reading and Composition .....	4
MATH 11/11H Elementary Statistics, <i>or</i>	
Honors Elementary Statistics, <i>or</i>	
MATH 42 Statistics for the Behavioral Sciences, <i>or</i>	
DS 23 Business Statistics .....	3-4
HIST 11 History of the United States to 1877, <i>or</i>	
HIST 12/12H History of the United States since 1877, <i>or</i>	
Honors History of the United States since 1877 .....	3
PHIL 1C Ethics .....	3
POLSCI 2/2H American Government, <i>or</i>	
Honors American Government .....	3
Total	32-33

**PRE-LAW IN INTERDISCIPLINARY STUDIES****– MAJOR #8710**

The Interdisciplinary Pre-Law degree is designed to provide students with the background and skills necessary to succeed in pre-law programs at 4-year institutions, and law schools. Students in this program will develop the reading comprehension, written communication, research, and critical reasoning skills that will help them excel in the legal field. In addition, students will gain an understanding and appreciation of historical, social, political and economic issues related to law. The courses in the program fit the general education requirements for the Associate's Degree, as well as California State University and University of California transfer. Students enrolled in the pathway to law school program are encouraged to pursue the Interdisciplinary Pre-Law degree.

**ASSOCIATE IN ARTS DEGREE***Student Learning Outcomes:*

1. Demonstrate independent and critical thinking regarding important topics in law.
2. Conduct research and effectively write about historical, social, political and economic issues related to law.

REQUIRED CORE COURSES		Units
AMST 11	Law and Democracy .....	3
BA 18	Business and the Legal Environment.....	4
COMM 4	Persuasion .....	3
CRIM 6	Concepts of Criminal Law .....	3
ENGL 1A	Reading and Composition.....	4
HIST 12	History of the United States since 1877.....	3
MATH 42	Statistics for the Behavioral Sciences.....	4
PHIL 1B	Social and Political Philosophy.....	3
PHIL 1C	Ethics .....	3
PHIL 2	Critical Reasoning and Analytic Writing .....	3
PHIL 6	Introduction to Logic.....	3
POLSCI 2	American Government.....	3
POLSCI 13	Legal and Judicial Reasoning.....	3
Select two courses:		Units
HIST 21	United States Civil War .....	3
HIST/WSTS 22	History of American Women.....	3
HIST 25	History of Religion in the United States.....	3
HIST/AFRAM 34	History of the American Civil Rights Movement .....	3
Recommended for GE pattern:		Units
AFRAM 3	African-American Art.....	3
ANTHRO 1	Biological Anthropology.....	3
GEOG 7	Physical Geography: Earth's Surface .....	4
LITEC 61	Information and Computer Literacy .....	3
PSY 2	General Psychology .....	3
Physical Education Courses.....		2
		<b>Total 66</b>

## Suggested sequence of courses:

First Semester (Fall)		Units
CRIM 6	Concepts of Criminal Law .....	3
ENGL 1A	Reading and Composition.....	4
HIST 12	History of the United States since 1877.....	3
LITEC 61	Information and Computer Literacy .....	3
Physical Education Course.....		1
Second Semester (Spring)		Units
BA 18	Business and the Legal Environment.....	4
COMM 4	Persuasion .....	3
HIST 21	United States Civil War, <i>or</i> HIST/WSTS 22 History of American Women .....	3
PHIL 2	Critical Reasoning and Analytic Writing .....	3
PSY 2	General Psychology .....	3
Third Semester (Fall)		Units
HIST 25	History of Religion in the United States, <i>or</i> HIST/AFRAM 34 History of the American Civil Rights Movement.....	3
MATH 42	Statistics for the Behavioral Sciences.....	4
PHIL 1C	Ethics .....	3
PHIL 6	Introduction to Logic .....	3
POLSCI 13	Legal and Judicial Reasoning.....	3

Physical Education Course.....		1
Fourth Semester (Spring)		Units
AFRAM 3	African-American Art.....	3
AMST 11	Law and Democracy .....	3
ANTHRO 1	Biological Anthropology.....	3
GEOG 7	Physical Geography: Earth's Surface .....	4
PHIL 1B	Social and Political Philosophy.....	3
PHIL 2	Critical Reasoning and Analytic Writing.....	3

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## LIBERAL ARTS

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### ASSOCIATE OF ARTS LIBERAL ARTS DEGREE WITH AREAS OF EMPHASIS

The associate in arts (A.A.) degree in Liberal Arts Degree is designed for students who wish a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". The associate in arts in Liberal Arts Degree would be an ideal choice for those students planning on transferring to the California State University or University of California as the student can satisfy their general education requirements, plus focus on transferable course work that relates to majors at CSU or UC.

Choose either Option I or II or III for the General Education Pattern related to your educational goal.

Complete the required number of units in one "Area of Emphasis" from those outlined below.

All classes listed below transfer to CSU. Refer to [www.ASSIST.org](http://www.ASSIST.org) for transfer details or see a counselor for additional details.

**ASSOCIATE IN ARTS DEGREE:** Students selecting this option must complete all of the required courses for Fresno City College AA/AS General Education Pattern. This option may not adequately prepare the student for transfer to a 4-year institution.

**CSU/GE:** Students intending to transfer to a CSU should complete this option. Students selecting this option must complete all of the required courses for CSU GE Certification.

**IGETC:** Students who intend to transfer to a UC should complete this option. Students selecting this option must complete all of the required courses for IGETC Certification.

#### AREAS OF EMPHASIS:

Choose one of the following "Area of Emphasis":

- American Sign Language
- Cultural Studies
- Foreign Languages
- History/Political Science
- Social Sciences
- Sociology

Complete the minimum number of units required in the "Area of Emphasis".

Electives may be necessary to total 60 degree applicable units required for the associate degree.

## LIBERAL ARTS WITH AN EMPHASIS IN AMERICAN SIGN LANGUAGE - MAJOR #5101

This program is designed to acquaint students with ASL and with an understanding of the culture and history of the people who use the Language.

It will also encourage them to appreciate the complexities of the multicultural society in which they live. Students will acquire the necessary sign language skills to succeed in everyday life experiences, vocational programs, and university transfer courses.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Students will acquire and demonstrate signing, skills at the intermediate-advanced level of the target language consistent with national standards for foreign language education.
2. Students will show evidence of the acquisition and application of grammatical structures when using American Sign Language.
3. Students will acquire and demonstrate skills necessary to analyze, compare and contrast cultures and practices between Deaf and hearing cultures.
4. Students will demonstrate familiarity with technologies allowing them to access sources in the following areas: current news from the target language, bibliographical and other sources related to coursework, contemporary culture sources, and interactive communication sites.

Minimum of 22 units from the following:		Units
ASL 1	Beginning American Sign Language .....	4
ASL 2	High-Beginning American Sign Language .....	4
ASL 3	Intermediate American Sign Language .....	4
ASL 4	High-Intermediate American Sign Language .....	4
ASL 5	Deaf Culture .....	3
ASL 6	Structure of American Sign Language .....	3
ASL 7	Deaf History .....	3
ASL 8	American Sign Language/Literature .....	3
Total		22

#### *\*Note:*

1. Two of the following courses may be challenged according to Foreign Language Department policy: ASL 1, 2.
2. An associate in arts degree in Liberal Arts with an emphasis in American Sign Language will be awarded to students who successfully complete a total of 60 units, which include the associate degree requirements and a minimum of 18 units of core course work listed above. Students seeking an associate degree may apply for an evaluation after they have completed 30-40 units and are within one year of graduation.

## LIBERAL ARTS DEGREE WITH AN EMPHASIS IN CULTURAL STUDIES - MAJOR #5121

This program is designed to acquaint students with the diversity of cultures, particularly within American society. The program offers a broad foundation for the study of cultures as well as classes specific to various ethnic cultures within the United States.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

Upon completion of the Associate in Arts with an Emphasis in Cultural Studies students will:

1. Be academically prepared to transfer to a four-year college.
2. Be prepared to enter the workforce and society with a cultural awareness that facilitates consideration of different cultures and cultural norms.
3. Have an understanding of the rich cultural diversity of the United States.
4. Have developed skills in critical thinking.

18 units from any of the following (but no more than 6 units from each discipline)

	Units	
AFRAM 1	Introduction to African American Studies .....	3
AFRAM 2	African American Cultural Adaptation.....	3
AFRAM 4	Classical and Pre Colonial Africa .....	3
AFRAM 5	The African Diaspora of the Americas.....	3
AFRAM 6	African Cultures and Languages.....	3
AFRAM/WSTS 41	African-American Women's Studies .....	3
AMIND 31	American Indian Culture.....	3
AMIND 32	American Indian History.....	3
AMIND 34	The American Indian in Contemporary Society .....	3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society.....	3
ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology .....	3
ANTHRO/CLS 28	Ancient Mexico .....	3
ASAMER 1	Indo-Chinese Americans.....	3
ASAMER 10	Hmong Culture.....	3
ASAMER 15	Introduction to Asian-Americans.....	3
ASAMER 25	Asian American Social Issues .....	3
CLS 11	Introduction to Chicano-Latino Studies.....	3
CLS 12	Mexican American History .....	3
CLS 13	Politics and the Chicano-Latino Community .....	3
CLS/SOC 14	Sociology of the Mexican American Community .....	3
CLS/WSTS 24	La Chicana and Latina.....	3
CLS/HIST 29	History of Mexico, Colonial to Contemporary Period .....	3
CLS 30	Migration and the Family: Social and Psychological Perspectives.....	3

CHDEV 15	Diversity and Culture in Early Childhood Education Programs.....	3
GEOG 2	Cultural Geography.....	3
GEOG 4A	World Geography.....	3
GEOG 4B	World Geography.....	3
GEOG 20	Geography in California.....	3
POLSCI 24	International Relations.....	3
SOC 1B	Critical Thinking about Social Problems.....	3
SOC 2	American Minority Groups.....	3
WSTS 10	Changing Roles of Women.....	3
	Total	18

**LIBERAL ARTS DEGREE WITH AN EMPHASIS IN FOREIGN LANGUAGES - MAJOR #5134**

This program is designed to acquaint students with foreign languages and with an understanding of the culture and history of the people who speak them. The study of foreign languages encourages students to examine assumptions they have uncritically accepted before their college experience. Students with substantial foreign language fluency who combine their language skills with a solid foundation in liberal education will find fulfilling occupations.

It will also encourage them to appreciate the complexities of the multicultural society in which they live. Students will acquire the necessary language skills to succeed in everyday life experiences, vocational programs, and university transfer courses.

**ASSOCIATE IN ARTS DEGREE**

*Student Learning Outcomes:*

1. Students will demonstrate listening, speaking, reading, and writing skills at the intermediate-advanced level of the target language consistent with national standards for foreign language education.
2. Students will show evidence of the acquisition and application of grammatical structures when using language.
3. Students will demonstrate skills necessary to analyze and compare and contrast cultures and practices of the target language with their own culture.
4. Students will demonstrate familiarity with technologies allowing them to access sources in the following areas: current news from the target country, bibliographical and other sources related to coursework, contemporary culture sources, and interactive communication sites.

Minimum of 20 units in at least two foreign languages

Choose from the following:	Units
ARMEN 2	High-Beginning Armenian..... 5
CHIN 2	High-Beginning Chinese..... 5
FRENCH 2	High-Beginning French..... 5
FRENCH 3	Intermediate French..... 5
GERMAN 2	High-Beginning German..... 5
HMONG 2	High-Beginning Hmong..... 5
JAPAN 2	High-Beginning Japanese..... 5

PORT 2	High-Beginning Portuguese.....	5
SPAN 2	High-Beginning Spanish.....	5
SPAN 2NS	Preparatory Spanish for Native Speakers.....	5
SPAN 3	Intermediate Spanish.....	5
SPAN 3NS	Spanish for Spanish Speakers.....	5
SPAN 4	High-Intermediate Spanish.....	5
SPAN 4NS	Spanish for Spanish Speakers.....	5
SPAN 5	The Short Story: Mexico, Spain, and the U.S. ....	4
SPAN 6	The Short Story: Latin America.....	4
SPAN 7	Advanced Spanish: Composition and Grammar ...	4
SPAN 8	Advanced Spanish Conversation.....	4
SPAN 9	Spanish Business and Culture.....	4
SPAN 41	Introduction to Poetry in Spanish.....	4
SPAN 42	Hispanic American Culture.....	4
	Total	20

**LIBERAL ARTS DEGREE WITH AN EMPHASIS IN HISTORY/POLITICAL SCIENCE – MAJOR #5141**

This program is designed to acquaint students with the methodologies of history and political science and to increase their awareness of the foundations of social, cultural, and political aspects of modern society.

**ASSOCIATE OF ARTS DEGREE**

*Student Learning Outcomes:*

Upon completion of the AA with an Emphasis in History/Political Science, students will:

1. Be familiar with and be able to analyze the foundations of modern institutions.
2. Be familiar with and be able to analyze the political process.
3. Be familiar with the cultural diversity of society and be able to gauge its significance in politics and history.

18 Units with 9 units from each discipline:	Units
HIST 1	Western Civilization to 1648..... 3
HIST 2	Western Civilization since 1648..... 3
HIST 3	History of Ancient Rome..... 3
HIST 11	History of the United States to 1877..... 3
HIST 12/12H	History of the United States since 1877, <i>or</i> Honors History of the United States since 1877..... 3
HIST 15	History of the British Isles..... 3
HIST 17	History of the Muslim World to 1405..... 3
HIST 18	History of Ancient Greece..... 3
HIST 20	World History I, to 1600..... 3
HIST 21	United States Civil War..... 3
HIST/WSTS 22	History of American Women..... 3
HIST 23	World History II, since 1500..... 3
HIST 25	History of Religion in the United States..... 3
HIST/CLS 29	History of Mexico, Colonial to Contemporary Period..... 3
HIST 30	California History..... 3
HIST/AFRAM 34	History of the American Civil Rights Movement..... 3

POLSCI 1	Modern Politics.....	3
POLSCI 2/2H	American Government, <i>or</i> Honors American Government.....	3
POLSCI 3	Introduction to Political Theory and Thought.....	3
POLSCI 5	Comparative Government.....	3
POLSCI 13	Legal and Judicial Reasoning.....	3
POLSCI 24	International Relations.....	3
POLSCI 25	Model United Nations.....	3
	Total	18

### LIBERAL ARTS DEGREE WITH AN EMPHASIS IN SOCIAL SCIENCES – MAJOR #5176

A program designed to acquaint the students with the diversity of subjects in the Social Sciences. The Social Sciences offer a broad study in human behavior. This area of emphasis will be an ideal choice for students planning to transfer to the California State University or University of California as students can satisfy their general education requirements, plus focus on transferable course work that relates to majors in liberal arts or liberal studies at CSU or UC. Each student should consult with a counselor for specific information regarding intended majors at the specific college/university of his/her choice.

#### ASSOCIATE IN ARTS DEGREE

##### *Student Learning Outcomes:*

Upon completion of the AA with an Emphasis in Social Sciences students will:

1. Be academically prepared to transfer to a four-year college.
2. Be prepared to analyze the influence of culture, economics, family, and society on individual development.
3. Identify the consequences of bias on social interactions.
4. Have developed skills in critical thinking.

18 units of core courses from any of the following courses (but no more than 6 units in one discipline):

AFRAM 1	Introduction to African American Studies.....	3
AFRAM 3	African-American Art.....	3
AMIND 31	American Indian Culture.....	3
AMIND 32	American Indian History.....	3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society.....	3
ANTHRO 2/2H	Cultural Anthropology, <i>or</i> Honors Cultural Anthropology.....	3
ANTHRO 3	Archaeology and World Prehistory.....	3
ANTHRO 13	Anthropology of Magic, Witchcraft, and Religion.....	3
ASAMER 1	Indo-Chinese Americans.....	3
ASAMER 15	Introduction to Asian-Americans.....	3
CHDEV/PSY 39	Child Growth and Development.....	3
CLS 11	Introduction to Chicano-Latino Studies.....	3
CLS 12	Mexican American History.....	3
ECON 40/40H	Introduction to Microeconomics, <i>or</i> Honors Introduction to Microeconomics.....	3

ECON 50/50H	Introduction to Macroeconomics, <i>or</i> Honors Introduction to Macroeconomics.....	3
GEOG 2	Cultural Geography.....	3
GEOG 4A	World Geography.....	3
GEOG 4B	World Geography.....	3
HIST 1	Western Civilization to 1648.....	3
HIST 2	Western Civilization since 1648.....	3
HIST 15	History of the British Isles.....	3
HIST 17	History of the Muslim World.....	3
HIST 18	History of Ancient Greece.....	3
HIST 21	United States Civil War.....	3
HIST 22	History of American Women.....	3
HIST 29	History of Mexico, Colonial to Contemporary Period.....	3
HIST 30	California History.....	3
HIST 34	History of the American Civil Rights Movement...	3
HS 20	Introduction to Social Welfare.....	3
POLSCI 1	Modern Politics.....	3
POLSCI 5	Comparative Government.....	3
POLSCI 24	International Relations.....	3
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
PSY 5	Social Psychology.....	3
PSY 25	Human Sexuality.....	3
PSY 33	Personal and Social Adjustment.....	3
SOC 1A/1AH	Introduction to Sociology, <i>or</i> Honors Introduction to Sociology.....	3
SOC 1B	Critical Thinking about Social Problems.....	3
SOC 2	American Minority Groups.....	3
SOC 10	Introduction to Aging Studies.....	3
SOC 14	Sociology of the Mexican American Community.....	3
SOC 31	The Child in Society: A Social Problems Approach.....	3
SOC 32	Introduction to Marriage and Family.....	3
WSTS 10	Changing Roles of Women.....	3
	Total	18



## LIBRARY TECHNOLOGY

### LIBRARY TECHNOLOGY – MAJOR #5171

Program prepares students to work as a paraprofessional in a variety of libraries.

#### ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

1. Apply basic knowledge of library principles and practices to a specific library setting.
2. Perform skills associated with the technical service functions in libraries.
3. Use skills associated with the delivery of public services currently in use in libraries.
4. Analyze the purpose of the paraprofessional in all types of libraries.

REQUIRED COURSE WORK		Units
LITEC 51	Introduction to Library Services .....	3
LITEC 52A	Organization of Information .....	3
LITEC 52B	Collection Management .....	1
LITEC 55	Library Public Service .....	3
LITEC 56	Information Technology .....	3
LITEC 57	Reference: Print and Online Sources .....	3
LITEC 61	Information and Computer Literacy .....	3
Select one of the following:		Units
LITEC 54	Literature and Services for Youth .....	3
LITEC 62	Medical Resources and Libraries .....	3
LITEC 63	Legal Resources and Libraries .....	3
Total		22

*Note: Associate in Science degree additionally requires completion of the associate degree requirements found in the Fresno City College Catalog. Students seeking an associate degree may apply for an evaluation at Admissions and Records after they have completed 30–40 units and are within a year of graduation. Students interested in a Certificate of Achievement are urged to consult a counselor or faculty advisor regarding this program.*

## MANUFACTURING TECHNICIAN

### – MAJOR #8061

This curriculum provides training in maintenance mechanic, electrical control systems, and principles of industrial refrigeration (ammonia) systems.

#### CERTIFICATE

##### *Student Learning Outcomes:*

1. Demonstrate satisfactory knowledge of pneumatic/hydraulic systems.

2. Demonstrate satisfactory knowledge of oxyacetylene and arc welding processes, and use of common hand tools.
3. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.
4. Write programs in ladder logic, load and troubleshoot the programs, and operate the system.

REQUIRED COURSES		Units/Hours
EST 50	Introduction to Electrical Systems Technology .....	2 Units
EST 55A	Digital Concepts .....	3 Units
EST 58	Programmable Logic Controllers .....	3 Units
EST 59	Instrumentation Systems .....	3 Units
MMCTC 370	Fundamentals of Welding and Machine Shop .....	300 Hours
MMCTC 371	Fundamentals of Hydraulics and Pneumatics .....	300 Hours
MMCTC 372	Electrical Fundamentals .....	300 Hours
Total		11 units

## MARKETING

### MARKETING – MAJOR #2110

This curriculum is designed for students planning to enter the marketing fields of retailing, wholesaling, general selling, and advertising.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Develop and implement a marketing plan in response to market opportunities.
2. Assess and apply technology to appropriate marketing activities.
3. Design, write, and execute a promotional plan including the formulation of selling strategies.
4. Apply effective leadership skills while managing marketing functions within a business enterprise.

##### *FIRST YEAR*

First Semester		Units
MKTG 10	Principles of Marketing .....	3
MKTG 11	Selling and Sales Management .....	3
Associate Degree Requirements .....		10
Total		16

Second Semester		Units
BA 33	Human Relations in the Workplace .....	3
CIT 15	Computer Concepts .....	3
MKTG 12	Advertising and Promotion .....	3
Associate Degree Requirements .....		7
Total		16



**SECOND YEAR**

First Semester		Units
MKTG 14	Retailing .....	3
Associate Degree Requirements .....		10
Total		13

Second Semester		Units
MKTG 21	Digital Marketing.....	3
BT 115	Refresher Math.....	3
Associate Degree Requirements .....		10
Total		16

Recommended Electives: ACCTG 4A; BA 5, 10; MKTG 17, 19. (MKTG 19, 1st & 2nd semester, should be equivalent to 500 hours of work experience.)

*Note: Associate degree requirements are listed on page 37.*

**MARKETING – MAJOR #2110**

This curriculum is designed for students planning to enter the marketing fields of retailing, wholesaling, general selling, and advertising/promotion.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Develop and implement a marketing plan in response to market opportunities.
2. Assess and apply technology to appropriate marketing activities.
3. Design and execute a promotional plan including the formulation of selling strategies.
4. Apply effective leadership skills while managing marketing functions within a business enterprise.

REQUIRED COURSES		Units
BA 33	Human Relations in the Workplace.....	3
BT 115*	Refresher Math.....	3
CIT 12	Computer Literacy.....	3
MKTG 10	Principles of Marketing .....	3
MKTG 11	Selling and Sales Management .....	3
MKTG 12	Advertising and Promotion.....	3
MKTG 14	Retailing.....	3
MKTG 19	Work Experience (Cooperative), Occupational.....	2
MKTG 21	Digital Marketing.....	3
Total		26

*\* Requirements and units will be waived if knowledge and skill in the subject matter can be demonstrated.*

**ADVERTISING – MAJOR #2113**

A step incentive certificate signifying proficiency in advertising and sales promotion.

**CERTIFICATE***Student Learning Outcomes:*

1. Describe each element in the promotion mix.
2. Identify appropriate media for various promotional situations.
3. Develop and implement a marketing media plan in response to market opportunities.
4. Formulate promotion and selling strategies.
5. Display soft skills required for workplace success including team-building, conflict management, communication, and professional behavior.

REQUIRED COURSES		Units
MKTG 10	Principles of Marketing .....	3
MKTG 12	Advertising and Promotion.....	3
MKTG 21	Digital Marketing.....	3
Total		9

**FASHION MERCHANDISING - MAJOR #2152**

A step incentive signifying proficiency for entry-level fashion merchandising positions.

**CERTIFICATE***Student Learning Outcomes:*

1. Apply knowledge and understanding of key elements of the fashion industry to the areas of entry-level fashion merchandising.
2. Demonstrate an understanding and application of appropriate design and merchandising concepts through the creation of a visual display.
3. Demonstrate a strategic understanding of all elements of the retailing mix through application of retailing case studies/scenarios.

REQUIRED COURSES		Units
MKTG 14	Retailing.....	3
MKTG 17	Visual Merchandising .....	3
MKTG 22	Introduction to Fashion Merchandising.....	3
Total		9

## MARKETING, FASHION MERCHANDISING

- MAJOR #2152

This degree prepares students for employment in the field of Fashion Merchandising.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcome:*

1. Prepares students for a wide variety of careers related to marketing, management, buying, and selling of fashion goods.

REQUIRED CORE COURSES		Units
ACCTG 4A	Financial Accounting.....	4
ART 3	Two-Dimensional Design .....	3
ECON 40	Introduction to Microeconomics .....	3
FM 26	Apparel and Textiles .....	3
FM 27	Introduction to Fashion Merchandising.....	3
ELECTIVE COURSES (CHOOSE ONE)		Units
CIT 15	Computer Concepts .....	3
DS 21	Finite Mathematics .....	3
Total		19

### RECOMMENDED SEQUENCE

First Year – First Semester		Units
ART 3	Two-Dimensional Design .....	3
Elective Course .....		3
First Year – Second Semester		Units
ECON 40	Introduction to Microeconomics .....	3
Second Year – First Semester		Units
ACCTG 4A	Financial Accounting.....	4
FM 27	Introduction to Fashion Merchandising.....	3
Second Year – Second Semester		Units
FM 26	Apparel and Textiles .....	3

#### *Notes:*

1. An AS degree will be awarded to any Fashion Merchandising certificate candidate who successfully completes a total of 60 units. The 60 units must include associate degree requirements and 23 units of course work in the major as listed above.
2. Associate degree requirements are listed on page 37.
3. General Education requirements for transfer certification are on page 36.

## MARKETING, FASHION MERCHANDISING

- MAJOR #2152

This certificate prepares students for employment in the field of Fashion Merchandising.

### CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcome:*

1. Integrate the elements of fashion design into the marketing and entrepreneurial concepts of retailing, merchandising, promotion, and personal sales.

REQUIRED CORE COURSES		Units
ART 7	Beginning Drawing.....	3

BA 51	Business Planning and New Venture Launch .....	1.5
MKTG 10	Principles of Marketing .....	3
MKTG 11	Selling and Sales Management .....	3
MKTG 12	Advertising and Promotion.....	3
MKTG 14	Retailing.....	3
MKTG 17	Visual Merchandising, .....	3
MKTG 21	Digital Marketing.....	3
MKTG 22	Introduction to Fashion Merchandising.....	3
Total		25.5

*Students are required to establish eligibility for English 125 and 126 or ESL 67 and 68.*

## MARKETING, RETAIL MANAGEMENT

– MAJOR #2055

The program prepares current and future retail employees for the fast paced, ever changing challenges in a competitive retail environment. The program is designed to meet the needs of the retail industry and is endorsed by leading retailers across the nation, including partner companies of the Western Association of Food Chains.

### ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Analyze a current marketing situation to identify retail opportunities.
2. Demonstrate effective leadership skills while managing marketing functions within a business enterprise.
3. Describe and identify appropriate application of finance and budgeting activities related to retail management.
4. Identify and describe the types of retailers and appropriate distribution methods for each type of retail situation.
5. Display soft skills required in a retail environment including customer service, teambuilding, time management, conflict management, communication, and professional behavior.

First Semester		Units
BA/BT 5	Workplace Communication .....	3
BA 33	Human Relations in the Workplace.....	3
BA 43	Principles of Management.....	3
CIT 15	Computer Concepts .....	3
Total		12

Second Semester		Units
BA 31	Human Resource Management.....	3
BT 131	Applied Accounting, or	
ACCTG 4A	Financial Accounting.....	3.5-4
MKTG 10	Principles of Marketing .....	3
MKTG 14	Retailing.....	3
Total		12.5-13

*Note: Students qualify for the certificate of achievement upon completion of the major requirements listed above. In addition, those completing the associate degree requirements on page 37 of the catalog, upon application, will be awarded the associate in science degree.*

## PERSONAL SALES – MAJOR #2114

A step incentive certificate signifying proficiency in personal sales.

### CERTIFICATE

*Student Learning Outcomes:*

1. Identify marketing-related opportunities.
2. Design and execute a sales promotion plan.
3. Identify and describe the principles of personal sales promotion and appropriate applications in various sales situations.
4. Display soft skills required for workplace success including team building, conflict management, communication, and professional behavior.

REQUIRED COURSES		Units
BA 33	Human Relations in the Workplace.....	3
MKTG 10	Principles of Marketing .....	3
MKTG 11	Selling and Sales Management .....	3
Total		9

## RETAILING – MAJOR #2116

A step incentive certificate signifying proficiency in entry-level retailing skills.

### CERTIFICATE

*Student Learning Outcomes:*

1. Develop and implement a marketing plan in response to market opportunities.
2. Apply effective leadership skills while managing marketing functions within a business enterprise.
3. Identify and describe appropriate application of the wheel of retailing to various retailing situation.
4. Identify and describe the types of retailers and appropriate distribution methods for each type of retail situation.
5. Display soft skills required for workplace success including team building, conflict management, communication, and professional behavior.

REQUIRED COURSES		Units
BA 33	Human Relations in the Workplace.....	3
MKTG 10	Principles of Marketing .....	3
MKTG 14	Retailing .....	3
Total		9

## MATHEMATICS FOR TRANSFER

- FORMERLY MATHEMATICS – MAJOR #6250

The Associate in Science in Mathematics for Transfer is designed to prepare students for further study in mathematics or in the sciences at the university level. It is also intend to provide students with a solid mathematics background in preparation for graduate level study or research in most majors. The Associate in Science in Mathematics for Transfer is specifically designed for students who plan to complete a bachelor's degree in mathematics at a CSU campus. To earn the Associate in Science in Mathematics for Transfer, students must complete 60 required semester units of CSU-transferable coursework, CSU-GE Breath or IGETC requirements and 20-21 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. The local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admissions and transfer requirements.

### ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Students will solve application problems in the natural sciences, management sciences, and social sciences using sound mathematical principles.
2. Students will demonstrate algebraic proficiency when using the concepts taught in each course to solve multi-step problems.
3. Students will use limits, derivatives, and integrals to calculate rates of change and infinite sums.

REQUIRED CORE COURSES		Units
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4
Total		13

GROUP A: Select a minimum of seven units from Groups A or B with at least three units from Group A. Units

MATH 7	Introduction to Differential Equations .....	4
MATH 17	Differential Equations and Linear Algebra.....	5
MATH 26	Elementary Linear Algebra.....	3

GROUP B: Select a minimum of four units from Group B if less than seven units in Group A were selected. Units

CSCI 40	Programming Concepts & Methodology I.....	4
MATH 11/11H	Elementary Statistics, <i>or</i> Honors Elementary Statistics, <i>or</i>	
MATH 42	Statistics for the Behavioral Sciences.....	4
PHYS 4A	Physics for Scientists and Engineers.....	4
Total		20-22

## MEDICAL ASSISTANT-CLINICIAN

– MAJOR #2120

This curriculum is designed for the student who desires employment and advancement in the medical facility assisting the physician with the diagnosis and treatment of the patient. Medical Assisting is an entry level career in the medical field.

### Admission Policy

Enrollment is limited in the Medical Assistant–Clinician Program. There are no restrictions as to age, race, sex or marital status. In order to qualify for admission to the program, the applicant must have met all of the following conditions:

1. Graduated from high school or complete the General Educational Development (GED) test with an average score of 45.
2. Completed Math 260D or test score that would qualify the student to place out of or above Math 260D.
3. Completed an Academic Summary Form for the Medical Assistant–Clinician Program and be prepared to furnish transcripts when requested.
4. Have no physical impairment that would preclude the performance of all Medical Assistant–Clinician duties. After selection as a qualified student to the Medical Assistant–Clinician Program, the student must submit evidence of physical examination with no limitations by a licensed physician.
5. Students are enrolled into the program in cohorts per semester.
6. Background checks may be required dependent on clinical placement in MA 19 work experience. A negative result may impact ability to complete program.

### ASSOCIATE IN SCIENCE DEGREE

#### Student Learning Outcomes:

1. Identify common medical conditions and diseases.
2. Perform clinical skills commonly associated in the physician's office.

REQUIRED CORE COURSES		Units
FN 40	Nutrition .....	3
HIT 10	Medical Terminology .....	3
MA 1	Legal and Ethical Concepts .....	2
MA 2	Pharmacology .....	3
MA 4	Office Lab Procedures .....	3
MA 5	Diagnostic and Therapeutic Procedures .....	3
MA 6A	Clinical Training .....	3
MA 6B	Advanced Training.....	3
MA 19	Work Experience (Cooperative), Occupational .....	3
Total		26

Note: BT 23, HLTH 2, and HS 24 are recommended electives.

## MEDICAL ASSISTANT-CLINICIAN

– MAJOR #2121

This curriculum is designed for the student who desires employment and advancement in the medical facility assisting the physician with the diagnosis and treatment of the patient. Medical Assisting is an entry level career in the medical field. ADMISSION POLICY Enrollment is limited in the Medical Assistant–Clinician Program. There are no restrictions as to age, race, sex or marital status. In order to qualify for admission to the program, the applicant must have met all of the following conditions:

1. Graduated from high school or complete the General Educational Development (GED) test with an average score of 45.
2. Completed Math 260D or test score that would qualify the student to place out of or above Math 260D.
3. Completed an Academic Summary Form for the Medical Assistant–Clinician Program and be prepared to furnish transcripts when requested.
4. Have no physical impairment that would preclude the performance of all Medical Assistant–Clinician duties. After selection as a qualified student to the Medical Assistant–Clinician Program, the student must submit evidence of physical examination by a licensed physician.
5. Students are enrolled into the program in cohorts per semester.

### CERTIFICATE OF ACHIEVEMENT

#### Student Learning Outcomes:

1. Identify common medical conditions and diseases.
2. Perform clinical skills commonly associated in the physician's office.

REQUIRED COURSES		Units
MA 1	Legal and Ethical Concepts .....	2
MA 2	Pharmacology .....	3
MA 4	Office Lab Procedures .....	3
MA 5	Diagnostic and Therapeutic Procedures .....	3
MA 6A	Clinical Training .....	3
MA 6B	Advanced Training.....	3
MA 19	Work Experience (Cooperative), Occupational .....	3
Total		20

# MUSIC

## MUSIC FOR TRANSFER – MAJOR #5805

The Associate in Arts in Music for Transfer degree is intended for students who plan to complete a Bachelor's degree in music studies at a CSU campus. Students completing the transfer degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts this degree will be required to complete no more than 60 units after transferring to earn a bachelor's degree. The Associate in Arts in Music for Transfer degree may not be the best option for students intending to transfer to a particular CSU campus or a university that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

### ASSOCIATE IN ARTS DEGREE

#### Student Learning Outcomes:

1. Audiate, analyze, read, and write music.
2. Perform music of at least three different time periods.
3. Perform in solo and ensemble settings.

REQUIRED CORE COURSES		Units
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 1B	Music Theory II.....	3
MUS 2A	Music Theory III.....	3
MUS 2B	Music Theory IV.....	3
MUS 7A	Ear Training I.....	1
MUS 7B	Ear Training: Level II.....	1
MUS 7C	Ear Training: Level III.....	1
MUS 7D	Ear Training: Level IV.....	1

Two Units of Intermediate/Advanced class requirement to be selected from the following: Units

MUS 22	Intermediate/Advanced Piano.....	1
MUS 26	Intermediate/Advanced Voice.....	1
MUS 29	Intermediate/Advanced Guitar.....	1
MUS 42A	Intermediate/Advanced Brass (Brass Choir).....	1
MUS 42B	Intermediate/Advanced Woodwinds (Woodwind Choir).....	1
MUS 42C	Intermediate/Advanced Strings (String Orchestra).....	1
MUS 42D	Intermediate/Advanced Percussion (Percussion Ensemble).....	1

For the Large Ensemble requirement, all music majors select four units from the following: Units

MUS 30	College Choir.....	1
MUS 34	Fresno Chorale.....	1
MUS 40	Concert Band.....	1
MUS 41	Jazz Ensemble.....	1
MUS 46	Symphony Orchestra.....	1

MUS 60	Symphonic Choir.....	1
MUS 68	Symphonic Band.....	1
MUS 72	Jazz Composer's Orchestra.....	2
MUS 76	College Philharmonic Orchestra.....	1
Total		22

This program satisfies the requirements for the Associate in Arts Degree with a major in music and the lower division course requirements at most California State Universities.

Music majors must select one of the following areas of specialization: instrumental (woodwind, brass, percussion, or strings), vocal, guitar, piano, or commercial music.

These majors must take the appropriate Intermediate/Advanced class and participate in a Large Ensemble every semester they are enrolled in the Music Major.

## INSTRUMENTAL MAJORS - MAJOR #5810

### ASSOCIATE IN ARTS DEGREE

#### Student Learning Outcomes:

1. Perform music on the instrument of choice from at least three different time periods.
2. Hear, analyze, read, and write music.
3. Distinguish historical musical styles while using appropriate conducting patterns.

REQUIRED CORE COURSES		Units
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 1B	Music Theory II.....	3
MUS 2A	Music Theory III.....	3
MUS 2B	Music Theory IV.....	3
MUS 7A	Ear Training: Level I.....	1
MUS 7B	Ear Training: Level II.....	1
MUS 7C	Ear Training: Level III.....	1
MUS 7D	Ear Training: Level IV.....	1
MUS 13	History of Music.....	3
MUS 18	Basic Conducting and Score Reading.....	2

Select eight units of Large Ensemble from the following: Units

MUS 40	Concert Band.....	1-2
MUS 41	Jazz Ensemble.....	1
MUS 46	Symphony Orchestra.....	1-2
MUS 68	Symphonic Band.....	1-2
MUS 72	Jazz Composer's Orchestra.....	2
MUS 76	College Philharmonic Orchestra.....	1-2

Brass, Woodwinds, String, and Percussion players select eight units in your field from the following: Units

MUS 42A	Intermediate/Advanced Brass (Brass Choir) .....	1-2
MUS 42B	Intermediate/Advanced Woodwinds (Woodwind Choir).....	1-2
MUS 42C	Intermediate/Advanced Strings (String Orchestra).....	1-2
MUS 42D	Intermediate/Advanced Percussion (Percussion Ensemble) .....	1-2
	Total	37

## VOCAL MAJORS - MAJOR #5820

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Perform vocal music of at least three different time periods.
2. Hear, analyze, read, and write music.
3. Distinguish historical musical styles while using appropriate conducting patterns.

#### REQUIRED CORE COURSES Units

MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 1B	Music Theory II .....	3
MUS 2A	Music Theory III .....	3
MUS 2B	Music Theory IV.....	3
MUS 7A	Ear Training: Level I.....	1
MUS 7B	Ear Training: Level II.....	1
MUS 7C	Ear Training: Level III.....	1
MUS 7D	Ear Training: Level IV .....	1
MUS 13	History of Music.....	3
MUS 18	Basic Conducting and Score Reading .....	2

Eight units of Intermediate/Advanced class requirement: Units

MUS 26	Intermediate/Advanced Voice .....	1-2
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Select eight units of Large Ensemble from the following: Units

MUS 30	College Choir .....	1-2
MUS 34	Fresno Chorale.....	1-2
MUS 39A	Opera Workshop - Baroque/Classical .....	2
MUS 39B	Opera Workshop: Romantic Period .....	2
MUS 39C	Classical Musical Opera.....	2
MUS 39D	Contemporary Opera and Musical Theatre .....	2
MUS 60	Symphonic Choir .....	1-2
	Total	37

## GUITAR MAJORS - MAJOR #5830

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Perform guitar music of at least three different time periods.
2. Hear, analyze, read, and write music.
3. Distinguish historical musical styles while using appropriate conducting patterns.

#### REQUIRED CORE COURSES Units

MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 1B	Music Theory II .....	3
MUS 2A	Music Theory III .....	3
MUS 2B	Music Theory IV.....	3
MUS 7A	Ear Training: Level I.....	1
MUS 7B	Ear Training: Level II.....	1
MUS 7C	Ear Training: Level III.....	1
MUS 7D	Ear Training: Level IV .....	1
MUS 13	History of Music.....	3
MUS 18	Basic Conducting and Score Reading .....	2

Eight units of INT/ADV class requirement: Units

MUS 29	Intermediate/Advanced Guitar .....	1-2
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For the Large Ensemble requirement, all guitar majors select eight units from the following: Units

MUS 30	College Choir .....	1-2
MUS 34	Fresno Chorale.....	1-2
MUS 39A	Opera Workshop – Baroque/Classical.....	2
MUS 39B	Opera Workshop: Romantic Period .....	2
MUS 39C	Classical Musical Theatre .....	2
MUS 39D	Contemporary Opera and Musical Theatre .....	2
MUS 40	Concert Band .....	1-2
MUS 41	Jazz Ensemble.....	1-2
MUS 46	Symphony Orchestra.....	1-2
MUS 47A	Jazz Combo A .....	2
MUS 47B	Jazz Combo B .....	2
MUS 47C	Jazz Combo C .....	2
MUS 47D	Jazz Combo D .....	2
MUS 48	Latin Jazz Ensemble .....	2
MUS 53	Latin Jazz Workshop .....	2
MUS 54	Afro-Latin Ensemble.....	2
MUS 55	Afro-Caribbean Ensemble .....	2
MUS 60	Symphonic Choir .....	1-2
MUS 68	Symphonic Band.....	1-2
MUS 72	Jazz Composer's Orchestra.....	2
MUS 76	College Philharmonic Orchestra.....	1-2
MUS 92	Vocal Jazz Workshop.....	2

Total 37

## PIANO MAJORS - MAJOR #5840

## ASSOCIATE IN ARTS DEGREE

*Student Learning Outcomes:*

1. Perform piano music of at least three different time periods.
2. Hear, analyze, read, and write music.
3. Distinguish historical musical styles while using appropriate conducting patterns.

REQUIRED CORE COURSES	Units
MUS 1A Music Theory I, <i>or</i>	
MUS 1AE Music Theory I-Extra.....	3
MUS 1B Music Theory II.....	3
MUS 2A Music Theory III.....	3
MUS 2B Music Theory IV.....	3
MUS 7A Ear Training: Level I.....	1
MUS 7B Ear Training: Level II.....	1
MUS 7C Ear Training: Level III.....	1
MUS 7D Ear Training: Level IV.....	1
MUS 13 History of Music.....	3
MUS 18 Basic Conducting and Score Reading.....	2
Eight units of INT/ADV class requirement:	Units
MUS 22 Intermediate/Advanced Piano.....	1-2
For the Large Ensemble requirement, all piano majors select eight units from the following:	Units
MUS 30 College Choir.....	1-2
MUS 34 Fresno Chorale.....	1-2
MUS 39A Opera Workshop – Baroque/Classical.....	2
MUS 39B Opera Workshop: Romantic Period.....	2
MUS 39C Classical Musical Theatre.....	2
MUS 39D Contemporary Opera and Musical Theatre.....	2
MUS 40 Concert Band.....	1-2
MUS 41 Jazz Ensemble.....	1-2
MUS 46 Symphony Orchestra.....	1-2
MUS 47A Jazz Combo A.....	2
MUS 47B Jazz Combo B.....	2
MUS 47C Jazz Combo C.....	2
MUS 47D Jazz Combo D.....	2
MUS 48 Latin Jazz Ensemble.....	2
MUS 53 Latin Jazz Workshop.....	2
MUS 54 Afro-Latin Ensemble.....	2
MUS 55 Afro-Caribbean Ensemble.....	2
MUS 60 Symphonic Choir.....	1-2
MUS 68 Symphonic Band.....	1-2
MUS 72 Jazz Composer's Orchestra.....	2
MUS 76 College Philharmonic Orchestra.....	1-2
MUS 92 Vocal Jazz Workshop.....	2
Total	37

## BRASS PERFORMANCE – MAJOR #5811

The Brass Performance Certificate Program ensures that the brass music major has the fundamental academic preparation necessary for continued pursuit of the AA in Music or transfer to the university level.

## CERTIFICATE

*Student Learning Outcomes:*

1. Perform solo pieces of intermediate level.
2. Perform in large and small ensembles in performance situations.
3. Compose music, hear music analytically and analyze a musical score.

REQUIRED CORE COURSES	Units
MUS 3 Music Fundamentals, <i>or</i>	
MUS 1A Music Theory I, <i>or</i>	
MUS 1AE Music Theory I-Extra.....	3
MUS 12 Music Appreciation, <i>or</i>	
MUS 13 History of Music.....	3
Select four units of Intermediate/Advanced from the following:	Units
MUS 42A Intermediate/Advanced Brass (Brass Choir).....	1-2
Select four units of Large Ensemble from the following:	Units
MUS 40 Concert Band.....	2
MUS 46 Symphony Orchestra.....	2
MUS 68 Symphonic Band.....	2
MUS 76 College Philharmonic Orchestra.....	2
Total	14

## GUITAR PERFORMANCE – MAJOR #5831

The Guitar Performance Certificate Program ensures that the guitar music major has the fundamental academic preparation necessary for continued pursuit of the AA in Music or transfer to the university level.

## CERTIFICATE

*Student Learning Outcomes:*

1. Perform solo pieces of intermediate level.
2. Perform in large and small ensembles in performance situations.
3. Compose music, hear music analytically and analyze a musical score.

REQUIRED CORE COURSES	Units
MUS 3 Music Fundamentals, <i>or</i>	
MUS 1A Music Theory I, <i>or</i>	
MUS 1AE Music Theory I-Extra.....	3
MUS 12 Music Appreciation, <i>or</i>	
MUS 13 History of Music.....	3
MUS 29 Intermediate/Advanced Guitar.....	4

Select four units of Large Ensemble from the following:		Units
MUS 30	College Choir.....	1-2
MUS 34	Fresno Chorale.....	1
MUS 35	City Singers.....	2
MUS 39A	Opera Workshop - Baroque/Classical.....	2
MUS 39B	Opera Workshop: Romantic Period.....	2
MUS 39C	Classic Musical Theatre.....	2
MUS 39D	Contemporary Opera and Musical Theatre.....	2
MUS 40	Concert Band.....	1-2
MUS 41	Jazz Ensemble.....	1-2
MUS 46	Symphony Orchestra.....	1
MUS 47A	Jazz Combo A.....	2
MUS 47B	Jazz Combo B.....	2
MUS 47C	Jazz Combo C.....	2
MUS 47D	Jazz Combo D.....	2
MUS 48	Latin Jazz Ensemble.....	2
MUS 53	Latin Jazz Workshop.....	2
MUS 54	Afro-Latin Ensemble.....	2
MUS 55	Afro-Caribbean Ensemble.....	2
MUS 60	Symphonic Choir.....	1-2
MUS 68	Symphonic Band.....	1-2
MUS 72	Jazz Composer's Orchestra.....	2
MUS 76	College Philharmonic Orchestra.....	1
MUS 92	Vocal Jazz Workshop.....	2
Total		14

### JAZZ PERFORMANCE – MAJOR #5812

This program satisfies the music course requirements for the certificate in Jazz Performance which provides the fundamental skills necessary for the jazz performer.

#### CERTIFICATE

*Student Learning Outcomes:*

1. Perform jazz music by reading notated music scores
2. Distinguish historical jazz styles and its chronological musical development reflecting American society.
3. Distinguish the harmonic, melodic and formal structures of jazz music.
4. Perform improvisations at an intermediate to advanced level.

#### REQUIRED CORE COURSES

MUS 10A	Beginning Jazz Improvisation, <i>or</i>	Units
MUS 10B	Intermediate/Advanced Jazz Improvisation.....	2
MUS 16	Jazz History and Appreciation.....	3
Select three units from the following:		Units
MUS 1A	Music Theory I.....	3
MUS 1AE	Music Theory I-Extra.....	3
MUS 3	Music Fundamentals.....	3
MUS 4	Jazz Theory.....	3
MUS 6	Jazz Arranging and Composition.....	3

Select four units of Large Ensemble from the following:		Units
MUS 41	Jazz Ensemble.....	1
MUS 47A	Jazz Combo A.....	2
MUS 47B	Jazz Combo B.....	2
MUS 47C	Jazz Combo C.....	2
MUS 47D	Jazz Combo D.....	2
MUS 48	Latin Jazz Ensemble.....	2
MUS 53	Latin Jazz Workshop.....	2
MUS 54	Afro-Latin Ensemble.....	2
MUS 55	Afro-Caribbean Ensemble.....	2
MUS 72	Jazz Composer's Orchestra.....	2
MUS 92	Vocal Jazz Workshop.....	2
Total		12

### MUSIC THEORY – MAJOR #5860

The Music Theory Certificate Program ensures completion of the under-graduate music theory requirements necessary for the AA degree in Music and/or transfer to CSU, UC and some other public and private universities.

#### CERTIFICATE

*Student Learning Outcomes:*

1. Compose and analyze chord progressions of the common practice period
2. Analyze music scores for harmonic and formal structures of different historical, geographical, and cultural areas.
3. Write critically, synthesizing ideas and concepts about music while using correct terminology following attendance of a live music concert.

#### REQUIRED CORE COURSES

MUS 1A	Music Theory, <i>or</i>	Units
MUS 1AE	Music Theory I-Extra.....	3
MUS 1B	Music Theory II.....	3
MUS 2A	Music Theory III.....	3
MUS 2B	Music Theory IV.....	3
Total		12

### PERCUSSION PERFORMANCE – MAJOR #5813

The Percussion Performance Certificate Program ensures that the percussion music major has the fundamental academic preparation necessary for continued pursuit of the AA in Music or transfer to the university level.

#### CERTIFICATE

*Student Learning Outcomes:*

1. Perform solo pieces of intermediate level.
2. Perform in large and small ensembles in performance situations.
3. Compose music, hear music analytically and analyze a musical score.



REQUIRED CORE COURSES		Units
MUS 3	Music Fundamentals, <i>or</i>	
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 12	Music Appreciation, <i>or</i>	
MUS 13	History of Music .....	3

Select four units of Intermediate/Advanced from the following:  
Units

MUS 42D	Intermediate/Advanced Brass (Percussion Ensemble) .....	1-2
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Select four units of Large Ensemble from the following: Units

MUS 40	Concert Band .....	1-2
MUS 46	Symphony Orchestra.....	1-2
MUS 68	Symphonic Band.....	1-2
MUS 76	College Philharmonic Orchestra.....	1-2
Total		14

### PIANO PERFORMANCE – MAJOR #5841

The Piano Performance Certificate Program ensures that the piano music major has the fundamental academic preparation necessary for continued pursuit of the AA in Music or transfer to the university level.

#### CERTIFICATE

*Student Learning Outcomes:*

1. Perform solo pieces of intermediate level.
2. Perform in large and small ensembles in performance situations.
3. Compose music, hear music analytically and analyze a musical score.

REQUIRED CORE COURSES		Units
MUS 3	Music Fundamentals, <i>or</i>	
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 12	Music Appreciation, <i>or</i>	
MUS 13	History of Music .....	3
MUS 22	Intermediate/Advanced Piano.....	4

Select four units of Large Ensemble from the following: Units

MUS 30	College Choir.....	1-2
MUS 34	Fresno Chorale.....	1
MUS 39A	Opera Workshop - Baroque/Classical .....	2
MUS 39B	Opera Workshop: Romantic Period .....	2
MUS 39C	Classic Musical Theatre .....	2
MUS 39D	Contemporary Opera and Musical Theatre .....	2
MUS 40	Concert Band .....	1-2
MUS 41	Jazz Ensemble.....	1-2
MUS 47A	Jazz Combo A .....	2
MUS 47B	Jazz Combo B .....	2
MUS 47C	Jazz Combo C .....	2
MUS 47D	Jazz Combo D .....	2
MUS 48	Latin Jazz Ensemble .....	2
MUS 53	Latin Jazz Workshop .....	2
MUS 54	Afro-Latin Ensemble.....	2
MUS 55	Afro-Caribbean Ensemble .....	2

MUS 60	Symphonic Choir .....	1-2
MUS 68	Symphonic Band.....	1-2
MUS 72	Jazz Composer's Orchestra.....	2
MUS 92	Vocal Jazz Workshop .....	2
Total		14

### STRING PERFORMANCE – MAJOR #5814

The String Performance Certificate Program ensures that the string music major has the fundamental academic preparation necessary for continued pursuit of the AA in Music or transfer to the university level.

#### CERTIFICATE

*Student Learning Outcomes:*

1. Perform solo pieces of intermediate level.
2. Perform in large and small ensembles in performance situations.
3. Compose music, hear music analytically and analyze a musical score.

REQUIRED CORE COURSES		Units
MUS 3	Music Fundamentals, <i>or</i>	
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 12	Music Appreciation, <i>or</i>	
MUS 13	History of Music .....	3

Select four units of Intermediate/Advanced from the following:  
Units

MUS 42C	Intermediate/Advanced Brass (String Orchestra).....	1-2
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Select four units of Large Ensemble from the following: Units

MUS 46	Symphony Orchestra.....	1-2
MUS 76	College Philharmonic Orchestra.....	1-2
Total		14

### VOCAL PERFORMANCE – MAJOR #5821

The Vocal Performance Certificate Program ensures that the vocal music major has the fundamental academic preparation necessary for continued pursuit of the AA in Music or transfer to the university level.

#### CERTIFICATE

*Student Learning Outcomes:*

1. Sing solo pieces of intermediate level.
2. Sing in large and small ensembles in performance situations.
3. Compose music, hear music analytically and analyze a musical score.

REQUIRED CORE COURSES		Units
MUS 3	Music Fundamentals, <i>or</i>	
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 12	Music Appreciation, <i>or</i>	
MUS 13	History of Music .....	3
MUS 26	Intermediate/Advanced Voice .....	4

Select four units of Large Ensemble from the following:		Units
MUS 30	College Choir .....	1
MUS 34	Fresno Choral .....	1
MUS 35	City Singers .....	2
MUS 39A	Opera Workshop - Baroque/Classical .....	2
MUS 39B	Opera Workshop: Romantic Period .....	2
MUS 39C	Classic Musical Theatre .....	2
MUS 39D	Contemporary Opera and Musical Theatre .....	2
MUS 60	Symphonic Choir .....	1
MUS 92	Vocal Jazz Workshop.....	2
Total		14

### WOODWIND PERFORMANCE – MAJOR #5815

The Woodwind Performance Certificate Program ensures that the instrumental music major (woodwinds) has the fundamental academic preparation necessary for continued pursuit of the AA in Music or transfer to the university level.

#### CERTIFICATE

##### *Student Learning Outcomes:*

1. Perform solo pieces of intermediate level.
2. Perform in large and small ensembles in performance situations.
3. Compose music, hear music analytically and analyze a musical score.

REQUIRED CORE COURSES		Units
MUS 3	Music Fundamentals, <i>or</i>	
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 12	Music Appreciation, <i>or</i>	
MUS 13	History of Music .....	3

Select four units of Intermediate/Advanced from the following:

MUS 42B	Intermediate/Advanced Brass (Woodwind Choir).....	1-2
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Select four units of Large Ensemble from the following:

MUS 40	Concert Band .....	2
MUS 46	Symphony Orchestra.....	2
MUS 68	Symphonic Band.....	2
MUS 76	College Philharmonic Orchestra.....	2
Total		14

### COMMERCIAL MUSIC – MAJOR #5850

This program satisfies the music course requirements for the associate of science degree in commercial music and satisfies the requirements for the associate of science degree with a major in commercial music or music industry and the lower division course requirements at California state universities.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. Utilize current music technology to create, notate, and record music.
2. Distinguish the fundamentals of form, theory, history, and performance as it relates to commercial music.
3. Correctly describe the development and current structure of the music industry as it applies to a career in commercial music.

#### REQUIRED CORE COURSES

MUS 3	Music Fundamentals, <i>or</i>	Units
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 5	Computer Music Production .....	3
MUS 7A	Ear Training: Level I.....	1
MUS 8	Audio Engineering.....	3
MUS 17	History of Rock.....	3
**MUS 20	Beginning Piano: Level I .....	2
***MUS 21	Beginning Piano: Level II .....	2
*MUS 24	Beginning Voice: Level I.....	2
MUS 111	The Music Business.....	3
MUS 112	Introduction to Finale .....	2

For the Large Ensemble requirement select four units from the following:

MUS 30	College Choir .....	1-2
MUS 34	Fresno Chorale.....	1-2
MUS 40	Concert Band .....	1-2
MUS 41	Jazz Ensemble.....	1-2
MUS 46	Symphony Orchestra.....	1-2
MUS 47A	Jazz Combo A .....	2
MUS 47B	Jazz Combo B .....	2
MUS 47C	Jazz Combo C .....	2
MUS 47D	Jazz Combo D .....	2
MUS 48	Latin Jazz Ensemble .....	2
MUS 53	Latin Jazz Workshop .....	2
MUS 54	Afro-Latin Ensemble.....	2
MUS 55	Afro-Caribbean Ensemble .....	2
MUS 60	Symphonic Choir .....	1-2
MUS 68	Symphonic Band.....	1-2
MUS 72	Jazz Composer's Orchestra.....	2
MUS 76	College Philharmonic Orchestra.....	1-2
MUS 92	Vocal Jazz Workshop.....	2

For the Music Electives requirement, Commercial Music majors select from the following (2-3 units if not used previously):

MUS 1A	Music Theory I .....	3
MUS 1B	Music Theory II.....	3
MUS 2A	Music Theory III .....	3
MUS 2B	Music Theory IV.....	3
MUS 3	Music Fundamentals.....	3
MUS 4	Jazz Theory .....	3
MUS 5B	Music for Film, Television, and Video Games .....	3

MUS 6	Jazz Arranging and Composition.....	3
MUS 7B	Ear Training: Level II.....	1
MUS 8B	Audio Engineering II.....	3
MUS 8C	Audio Engineering III.....	3
MUS 9	Composition .....	2
MUS 10A	Beginning Jazz Improvisation.....	2
MUS 10B	Intermediate/Advanced Jazz Improvisation.....	2
MUS 12	Music Appreciation .....	3
MUS 13	History of Music.....	3
MUS 16	Jazz History and Appreciation .....	3
MUS 18	Basic Conducting and Score Reading .....	2
MUS 22	Intermediate/Advanced Piano.....	1-2
MUS 25	Beginning Voice: Level II.....	2
MUS 26	Intermediate/Advanced Voice .....	1-2
MUS 27	Beginning Guitar: Level I.....	2
MUS 28	Beginning Guitar: Level II.....	2
MUS 29	Intermediate/Advanced Guitar .....	1-2
MUS 30	College Choir.....	1-2
MUS 34	Fresno Chorale.....	1-2
MUS 35	City Singers .....	2
MUS 40	Concert Band .....	1-2
MUS 41	Jazz Ensemble.....	1-2
MUS 42A	Intermediate/Advanced Brass (Brass Choir).....	1-2
MUS 42B	Intermediate/Advanced Woodwinds (Woodwind Choir).....	1-2
MUS 42C	Intermediate/Advanced Strings (String Orchestra).....	1-2
MUS 42D	Intermediate/Advanced Percussion (Percussion Ensemble) .....	1-2
MUS 46	Symphony Orchestra.....	1-2
MUS 48	Latin Jazz Ensemble .....	2
MUS 49	Advanced Large Ensembles.....	1
MUS 57	Solo Repertoire Studies I.....	1
MUS 59	Advanced Chamber Ensembles .....	1
MUS 60	Symphonic Choir .....	1-2
MUS 68	Symphonic Band.....	1-2
MUS 72	Jazz Composer's Orchestra.....	2
MUS 76	College Philharmonic Orchestra.....	1-2
MUS 92	Vocal Jazz Workshop.....	2
MUS 93	Songwriting .....	3
	<b>Total</b>	<b>30-31</b>

Notes: \*MUS 25 or 26 may be substituted.

\*\*MUS 21 or 22 may be substituted.

\*\*\*MUS 22 may be substituted.

## COMMERCIAL MUSIC – MAJOR #5850

This program satisfies the requirements for the Certificate of Achievement in Commercial Music and the lower division requirements at California state universities. Music majors must select one of the following areas of specialization: instrumental, vocal, guitar, piano, or commercial music.

### CERTIFICATE OF ACHIEVEMENT

#### Student Learning Outcomes:

1. Analyze, read, and write music.
2. Perform early intermediate level piano solos, duets and ensembles in an artistic manner using good technique with stylistic and aesthetic considerations.
3. Appropriately work with music industry professionals.
4. Record musicians in a professional manner.
5. Successfully manipulate Midi and Finale software.

### REQUIRED CORE COURSE

	Units	
MUS 3	Music Fundamentals, <i>or</i>	
MUS 1A	Music Theory I, <i>or</i>	
MUS 1AE	Music Theory I-Extra.....	3
MUS 5	Computer Music Production .....	
MUS 5B	Music for Film, Television, and Video Games, <i>or</i>	
MUS 8B	Audio Engineering II, <i>or</i>	
MUS 93	Songwriting, <i>or</i>	
MUS 112	Introduction to Finale .....	2-3
MUS 8	Audio Engineering.....	3
*MUS 20	Beginning Piano Level I .....	2
MUS 111	The Music Business.....	3
	<b>Total</b>	<b>16-17</b>

\*MUS 21 or 22 may be substituted

## NURSING, REGISTERED – MAJOR #4520

The profession of registered nursing involves the provision of health care services, both direct and indirect, that focus on the maintenance, promotion and restoration of health. This includes basic health care to help people cope with difficulties in daily living that are associated with actual or potential problems of health, illness or the treatment thereof. Nursing is a dynamic problem-solving profession that focuses on the response of the individual to health problems. The practice of registered nursing requires a substantial amount of scientific knowledge and technical skills as well as leadership and managerial abilities. Students attend classes on the Fresno City College campus. Nursing experience is provided in selected local hospitals and health agencies.

### Application Requirements

Enrollment in the Registered Nursing Program is limited. Minimum qualifications for selection must be met. There are no restrictions as to age, race, sex or marital status. Prior to the final date for filing an application to the program, the applicant must have:

1. Graduated from high school with a minimum grade point average of "C+" (2.5) or better in high school work or completed the General Educational Development (GED) test with an average standard score of 45.
2. Completed Chemistry 3A or equivalent with a grade of "C" or better.
3. Completed Biology 20, Human Anatomy, and Biology 22, Human Physiology, (or Biology 21A and 21B, Human Anatomy and Physiology) with a grade of "C" or better in each course.
4. Completed Biology 31, Microbiology, with a grade of "C" or better.
5. Completed Sociology 1A, Introduction to Sociology, or Anthropology 2, Cultural Anthropology, and Psychology 2, General Psychology, with grades of "C" or better in each course.
6. Completed English 1A, Reading and Composition, with a grade of "C" or better.
7. Completed Mathematics 103, Foundations of Algebra, or a more advanced math course with a grade of "C" or better.
8. Attained a cumulative grade point average (GPA) of "C+" (2.5) or better in completed college work.
9. Completed an Academic Summary Form for the Registered Nursing Program and be prepared to furnish transcripts when requested to do so.
10. No physical impairment that would preclude the performance of all registered nurse duties.
11. Good physical and mental health.
12. Pass the Test of Essential Academic Skills (TEAS) with an overall score of 62% or better. The TEAS may only be taken twice with a minimum of 90 days between the attempts.

*Notes:*

1. *The college GPA and college courses of an applicant will have precedence over an applicant's high school GPA and courses.*
2. *Prior to registration for the semester in which the applicant is scheduled to take courses in the Registered Nursing Program, the student must submit evidence of physical examination, current immunizations, and freedom of TB by a licensed physician. The student is also required to attend a mandatory orientation meeting before the start of the semester.*
3. *Students are required to complete a background check.*

#### Change of Name, Address, and/or Telephone Number

Applicants and nursing students must keep the Nursing Education Office informed of any change in name, address, and/or telephone number. Failure of applicants to inform the Nursing Education Office of changes may result in loss of entry into the program.

#### Vocational Nursing Articulation

Procedures and application requirements specific to vocational nurse articulation into the Registered Nursing Program are available upon request.

#### Previous Education in Nursing

Any person desiring to enter the Fresno City College Registered Nursing Program by transfer or challenge will be evaluated on an individual basis after all college general requirements for transfer or challenge have been met. The college has written policies and procedures for academic training in registered nursing programs. Individuals who have completed vocational nursing programs and persons having other education in the field of nursing should contact the Director of Nursing for specific information.

#### Prenursing Preparation

Prenursing students planning to transfer to four-year programs in other schools should consult the catalog of the transfer school.

#### Academic Requirements

All program entry requirement courses listed above must be completed with a grade of "C" or better. In order to be eligible to apply for licensure as a Registered Nurse and to take the National Council Licensure Examination - RN, all other courses leading to the associate degree must also be completed with a grade of "C" or better. Students in the nursing program must earn a "C" grade or better (or a "Pass" grade when applicable) in all required nursing courses. Less than a "C" or a "Pass" grade in any required nursing course necessitates repeating the course before continuing with the major. Registered Nursing courses must be repeated in their entirety. Course repeatability and failure policy will be followed as outlined in the Registered Nursing Student Handbook.

If, based on the professional judgment of the faculty, a student demonstrates that he/she is unsuited to nursing, is not progressing satisfactorily or is engaged in unethical, unprofessional, or illegal practices, he/she may be asked to withdraw from the program.

#### State License

The successful completion of the prescribed registered nursing course sequence in addition to the other licensure and/or degree requirements qualifies the graduate for an associate in science degree and eligibility to apply for licensure as a Registered Nurse.

#### ASSOCIATE IN SCIENCE DEGREE

Registered Nursing Course Sequence (All courses must be completed with a grade of "C" or better.)

#### *Student Learning Outcomes:*

1. Students completing the Registered Nursing Program will be prepared to practice at a novice level as a professional nurse in the roles of caregiver, decision maker, communicator, professional, advocate, teacher, and manager as measured by 85% passing the NCLEX-RN.
2. At the completion of the Registered Nursing Program students will be able to coordinate nursing care for groups of clients by applying the nursing process to successfully modify care for critical and acute care clients.

**FIRST YEAR**

First Semester		Units
RN 31	Foundations and Introduction to Medical-Surgical Nursing .....	4
RN 32	Foundations and Introduction to Medical-Surgical Nursing Clinical .....	2
RN 32A	Foundations and Introduction to Medical-Surgical Nursing Skills .....	2
RN 33	Transcultural Health Care .....	1
RN 35A	Pharmacology A: Introduction to Pharmacology .....	1
Second Semester		Units
RN 35B	Pharmacology B: Nursing Pharmacological Applications .....	2
RN 41	Nursing Care of the Adult with Common Health Problems.....	2.5
RN 42	Nursing Care of the Adult with Common Health Problems Clinical.....	2
RN 42A	Nursing Care of the Adult with Common Health Problems Skills .....	1
RN 45	Nursing Care of the Childbearing Family Theory.....	2.5
RN 46	Nursing Care of the Childbearing Family Clinical.....	1.5
<b>SECOND YEAR</b>		
First Semester		Units
RN 51	Nursing Care of the Adult with Complex Health Problems.....	3
RN 52	Nursing Care of the Adult and Older Adult with Complex Health Problems Clinical .....	2
RN 52A	Nursing Care of the Adult and Older Adult with Complex Health Problems Skills .....	0.5
RN 53	Nursing Care of the Older Adult .....	1
RN 55	Nursing Care of Infants & Children .....	2
RN 56	Nursing Care of Infants & Children Clinical .....	2
Second Semester		Units
RN 61	Nursing Care of the Critically III Adult and Coordinator of Care.....	2.5
RN 62	Nursing Care of the Critically III Adult and Coordinator of Care Clinical.....	3
RN 62A	Nursing Care of the Critically III Adult Skills .....	0.5
RN 65	Nursing Care of the Client with Behavioral and Emotional Disorders.....	2
RN 66	Nursing Care of the Client with Behavioral and Emotional Disorders Clinical.....	1.5
Total		41.5

**LVN TO RN UPGRADE**

Prior to Entering Third Semester Fresno City College Nursing Curriculum		Units
RN 101	Transition to Fresno City College Registered Nursing Program.....	1.5
RN 102	Transition to Fresno City College Registered Nursing Program Skills.....	1
Total		2.5
Third Semester		Units
RN 51	Nursing Care of the Adult with Complex Health Problems.....	3
RN 52	Nursing Care of the Adult and Older Adult with Complex Health Problems Clinical .....	2
RN 52A	Nursing Care of the Adult and Older Adult with Complex Health Problems Skills .....	0.5
RN 53	Nursing Care of the Older Adult .....	1
Total		6.5
Fourth Semester		Units
RN 61	Nursing Care of the Critically III Adult and Coordinator of Care.....	2.5
RN 62	Nursing Care of the Critically III Adult and Coordinator of Care Clinical .....	3
RN 62A	Nursing Care of the Critically III Adult Skills .....	0.5
RN 65	Nursing Care of the Client with Behavioral and Emotional Disorders.....	2
RN 66	Nursing Care of the Client with Behavioral and Emotional Disorders Clinical.....	1.5
Total		9.5
Required Courses on Entry for Transfer Students from other Accredited Nursing Programs:		
		Units
RN 101	Transition to Fresno City College Registered Nursing Program.....	1.5
RN 102	Transition to Fresno City College Registered Nursing Program Skills.....	1

**ELECTIVE COURSES**

RN 19	Work Experience (Cooperative), Occupational
RN 105	Medication Math
RN 107	Introduction to Nursing Process

**Degree/Licensure Requirements**

In addition to the program application requirements and the program course requirements, the following courses are required to apply for licensure.

Communication 1 or 2. All course work must be completed with a "C" or better.

Electives to complete the AS degree requirements. All course work must be completed with a "C" or better.

*Note: All application requirements, program requirements, and selection criteria are subject to change. Students will enter the selection pool based on the current catalog or catalog supplement. Contact a Fresno City College Health Career Counselor every semester for current information.*

## PARALEGAL – MAJOR #2550

This curriculum is designed for the student who desires employment and advancement in the field of paralegal work.

### ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE OF ACHIEVEMENT

#### *Student Learning Outcomes:*

1. Describe the nature and historical development of the field of paralegalism, the ethical rules applicable to paralegals and the role of the paralegal in today's law office.
2. Demonstrate basic legal research, analysis and writing skills in preparing basic legal documents.
3. Define basic legal terminology and explain the basic substantive and procedural concepts applicable to American civil and criminal law.
4. Demonstrate basic proficiency in certain selected computer software programs used in the law office for: legal forms preparation, time and billing, calendaring, litigation support and case management.

#### *Completion of 32 units of common-core courses.*

REQUIRED CORE COURSES	Units
BA 20 Law and the Legal System.....	3
BT 28 Microsoft Word I .....	1.5
BT 29 Microsoft Word II .....	1.5
PLEGAL 1 Introduction to Paralegalism .....	3
PLEGAL 2A Legal Research & Writing I.....	3
PLEGAL 2B Legal Research & Writing II.....	3
PLEGAL 6A Litigation I.....	3
PLEGAL 6B Litigation II.....	3
PLEGAL 7 Law Office Administration and Ethics .....	3
PLEGAL 14 Law Office Computing.....	3
PLEGAL 19 Work Experience (Cooperative) Occupational (300 hours).....	4

#### ELECTIVES

Choose any 2 of the following courses for a total of 6 units:

	Units
PLEGAL 3 Family Law.....	3
PLEGAL 4 Probate.....	3
PLEGAL 5 Business Organizations.....	3
PLEGAL 8 Torts/Contracts.....	3
PLEGAL 10 Criminal Law & Procedure .....	3
PLEGAL 11 Evidence.....	3
PLEGAL 12 Bankruptcy .....	3
PLEGAL 15 Debt Collection & Enforcement of Judgments .....	3
PLEGAL 17 Administrative Law/Workers' Compensation .....	3
PLEGAL 18 Employment Law.....	3
PLEGAL 20 Civil Rights and Liberties .....	3
PLEGAL 156/BT 140 Legal Document Processing.....	3
Total	37

## PHILOSOPHY FOR TRANSFER

– MAJOR #5341

An Associate in Arts in Philosophy for Transfer is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. An Associate in Arts in Philosophy for Transfer is a great way to develop critical and creative reasoning skills, enhance an ability to read complex materials with comprehension, and improve communication skills. These assets will be valuable as a transfer student to a four-year institution, whether you major in philosophy or some other field, and will enhance your preparation for a wide range of career opportunities. To earn the Associate in Arts in Philosophy for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate independent and critical thinking regarding important topics in philosophy.
2. Analyze and evaluate arguments, both philosophical and non-philosophical, in accordance with the standards taught in our philosophy courses.

REQUIRED CORE COURSES	Units
PHIL 1A/1AH Theories of Knowledge and Reality, <i>or</i> Honors Theories of Knowledge and Reality.....	3
PHIL 1C/1CH Ethics, <i>or</i> Honors Ethics .....	3
PHIL 6 Introduction to Logic.....	3

Select three of the following courses  
(min. two PHIL):

HIST 1 Western Civilization to 1648 .....	3
HIST 2 Western Civilization since 1648 .....	3
HUMAN 10 Classical Humanities.....	3
HUMAN 11 Modern Humanities.....	3
PHIL 1B Social and Political Philosophy.....	3
PHIL 1D World Religions .....	3
PHIL 2/2H Critical Reasoning and Analytic Writing, <i>or</i> Honors Critical Reasoning and Analytic Writing.....	3
PHIL 3A Ancient Philosophy .....	3
PHIL 3B Modern Philosophy.....	3
PHIL 5 Philosophy of Religion.....	3

Total 18

## PHOTOGRAPHY

### PROFESSIONAL PHOTOGRAPHY

– FORMERLY PHOTOGRAPHY – MAJOR #5221

Students in this curriculum are trained in the major areas of professional photography. Positions for which graduates may qualify, depending upon their interest, abilities, and achievement, include portrait, commercial, editorial, digital, and retail fields. Some equipment and supplies provided.

#### ASSOCIATE IN SCIENCE DEGREE

*Student Learning Outcomes:*

1. Produce professional quality photographs in various contemporary formats.

#### FIRST YEAR

First Semester		Units
PHOTO 6	Digital Imaging Fundamentals.....	3
PHOTO 12	Beginning Photoshop.....	3
PHOTO 15	Photography and Visual Literacy.....	3
Second Semester		Units
PHOTO 23	Advanced Photoshop .....	3
PHOTO 32	Commercial Portraiture .....	3

#### SECOND YEAR

First Semester		Units
PHOTO 18	Advanced Black and White Photography .....	3
PHOTO 26	Lighting Principles.....	3
PHOTO 57	Applied Color and Alternative Photographic Media.....	3
Second Semester		Units
PHOTO 45	Advanced Projects.....	3
<b>Total</b>		<b>27</b>

*Note: Associated degree requirements are listed on page 35.*

### PROFESSIONAL PHOTOGRAPHY

– FORMERLY PHOTOGRAPHY – MAJOR #5221

Students in this curriculum are trained in the major areas of professional photography. Positions for which graduates may qualify, depending upon their interest, abilities, and achievement, include portrait, commercial, editorial, digital, and retail fields. Some equipment and supplies provided.

#### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcome:*

1. Produce professional quality photographs in various contemporary formats.

First Year - First Semester		Units
PHOTO 6	Digital Imaging Fundamentals.....	3
PHOTO 12	Beginning Photoshop.....	3

First Year - Second Semester		Units
PHOTO 15	Photography and Visual Literacy.....	3
PHOTO 23	Advanced Photoshop .....	3
PHOTO 32	Commercial Portraiture .....	3
Second Year - First Semester		Units
PHOTO 26	Lighting Principles.....	3
PHOTO 45	Advanced Projects.....	3
PHOTO 57	Applied Color and Alternative Photographic Media.....	3
<b>Total</b>		<b>24</b>

### COMMERCIAL PHOTOGRAPHY – MAJOR #5222

Students taking these courses will develop skills in creating photographs for commercial clients from small and large scale studio and location situations. Students will learn appropriate workflow and processes to compete in the commercial marketplace.

#### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Utilize skills in picture creation, selection and cropping with emphasis on impact and marketability.

REQUIRED COURSES		Units
PHOTO 6	Digital Imaging Fundamentals.....	3
PHOTO 12	Beginning Photoshop.....	3
PHOTO 23	Advanced Photoshop .....	3
PHOTO 26	Lighting Principles.....	3
PHOTO 32	Commercial Portraiture .....	3
PHOTO 57	Applied Color and Alternative Photographic Media.....	3
<b>Total</b>		<b>18</b>

### DIGITAL PHOTOGRAPHY – MAJOR #5223

Students taking these courses will learn the various methods and processes of digital photography emphasizing quality on all levels. From digital capture to high end output printing, students will learn control of a variety of digital systems.

#### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcomes:*

1. Organize effective color management of images from input to output on high end digital printing devices.

REQUIRED COURSES		Units
PHOTO 6	Digital Imaging Fundamentals.....	3
PHOTO 12	Beginning Photoshop.....	3
PHOTO 23	Advanced Photoshop .....	3
PHOTO 52	Adobe Lightroom .....	3
PHOTO 57	Applied Color and Alternative Photographic Media.....	3
<b>Total</b>		<b>15</b>

**FINE ART PHOTOGRAPHY – MAJOR #5224**

Students taking these courses will concentrate on the fine art of photography using various methods and processes with historical techniques as well as new forms. Both film and digital technologies are used to develop the creative process and personal expression.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Utilize photography as a visual communication tool.

REQUIRED COURSES		Units
PHOTO 6	Digital Imaging Fundamentals.....	3
PHOTO 12	Beginning Photoshop.....	3
PHOTO 15	Photography and Visual Literacy.....	3
PHOTO 18	Advanced Black and White Photography.....	3
PHOTO 23	Advanced Photoshop.....	3
PHOTO 57	Applied Color and Alternative Photographic Media.....	3
Total		18

**PHOTOJOURNALISM – MAJOR #5225**

Students will learn the art of storytelling through images and the power in conveying another person's story through their own eyes. Digital composition and editing of storytelling images will be explored and utilized.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Produce story telling photographs and video for contemporary internet media.

REQUIRED COURSES		Units
BA 52	Introduction to Entrepreneurship.....	3
PHOTO 6	Digital Imaging Fundamentals.....	3
PHOTO 49	Multimedia Photojournalism.....	3
PHOTO 52	Adobe Lightroom.....	3
Total		12

**SOCIAL MEDIA IMAGING – MAJOR #**

Course work for the non-photographer in image creation and publishing in the Internet environment. Concepts of image making, copyright, branding, and visual engagement specifically for online usage.

**CERTIFICATE***Student Learning Outcome:*

1. Produce correctly formatted still images and video media in a creative manner for social media publishing.

REQUIRED COURSES		Units
PHOTO 5	Introduction to Photography.....	3
PHOTO 14	Photography for Social Media.....	3
PHOTO 52	Adobe Lightroom.....	3
Total		9

**PHYSICAL EDUCATION****SPORTS MEDICINE – MAJOR #4330**

This degree is designed to prepare students for various fields of study related to health care and athletic sports related injuries as well as preparation for transfer to a four year university.

**ASSOCIATE IN SCIENCE DEGREE***Student Learning Outcomes:*

1. Identify and discuss the different Sports Medicine professions and their role in the health care continuum.
2. Identify anatomy and physiology as it pertains to human performance and injury.
3. Differentiate career opportunities relative to different populations.
4. Demonstrate basic cardiopulmonary resuscitation, first aid skills, musculoskeletal and general medical skills.

REQUIRED COURSES		Units
BIOL 20	Human Anatomy, <i>or</i>	
BIOL 21A	Human Anatomy & Physiology I.....	4
BIOL 22	Human Physiology, <i>or</i>	
BIOL 21B	Human Anatomy & Physiology II.....	5
FN 35	Nutrition and Health, <i>or</i>	
FN 41	Sports Nutrition.....	2-3
HLTH 2	First Aid and Safety.....	3
HLTH 3	Concepts in Health and Fitness.....	3
PE 15A	Weight Training (Women), <i>or</i>	
PE 15B	Weight Training (Men), <i>or</i>	
PE 15C	Weight Training (Coed).....	1-2
PE 18A	Sports Medicine Lab A.....	2
PE 18B	Sports Medicine Lab B.....	2
PE 20	Care and Prevention in Athletic Populations.....	4
Total		26-28



## PHYSICS FOR TRANSFER – MAJOR #6335

An Associate in Science in Physics for Transfer is designed for students who plan to complete a bachelor's degree in Physics at a CSU or UC campus. An Associate in Science in Physics for Transfer is comprised of the core set of introductory Physics and Mathematics courses that assist a student to develop critical thinking and analytical reasoning skills and establish conceptual frameworks for understanding physical phenomena. To earn the Associate in Science in Physics for Transfer, students must complete a maximum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 18 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. For more information on university admission and transfer requirements, students should consult with a counselor.

### ASSOCIATE IN SCIENCE DEGREE

#### *Student Learning Outcomes:*

1. Given a set of initial conditions, apply problem solving techniques to develop a mathematical model which describes the physical characteristics of a given system. Identify known and unknown quantities, derive appropriate equations, and analyze the results.
2. Given a physical system, identify the core concepts and physical laws that apply. Describe the system in terms of the core concepts and physical laws. Select appropriate conceptual model(s) and justify their application.
3. In the laboratory setting, demonstrate safe laboratory practices.
4. In the laboratory setting, determine the relationship between the physical quantities of a system. Develop mathematical models and use analytical and graphical means to predict the subsequent behavior of the system.

REQUIRED CORE COURSES		Units
PHYS 4A	Physics for Scientists and Engineers.....	4
PHYS 4B	Physics for Scientists and Engineers.....	4
PHYS 4C	Physics for Scientists and Engineers.....	4
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4

## POLITICAL SCIENCE FOR TRANSFER

– MAJOR #7450

The Associate in Arts in Political Science for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the associate in arts transfer degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Students are required to complete: A.) 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. B.) 60 semester CSU transferable units using the CSU-General Education Breadth pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. C.) No more than 60 semester units are required.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Explain the method of inquiry used by political science.
2. Evaluate the success of political systems in building community, fostering economic growth and attaining the goals of liberty, security, and equality.
3. Identify and explain the causes and consequences of increasing global interdependence.

REQUIRED CORE COURSES: Select one of the following: Units  
 POLSCI 2/2H American Government, *or*  
 Honors American Government..... 3

LIST A: Select three of the following: Units  
 MATH/PSY 42 Statistics for the Behavioral Sciences, *or*..... 4  
 MATH 11 Elementary Statistics..... 4  
 POLSCI 1 Modern Politics..... 3  
 POLSCI 3 Introduction to Political Theory and Thought ..... 3  
 POLSCI 5 Comparative Government..... 3  
 POLSCI 24 International Relations..... 3

LIST B: Select two of the following: Units  
 BA 20 Law and the Legal System..... 3  
 ECON 40 Introduction to Microeconomics, *or*  
 ECON 50 Introduction to Macroeconomics ..... 3  
 POLSCI 13 Legal and Judicial Reasoning..... 3  
 SOC 1B Critical Thinking about Social Problems ..... 3

*Notes: Required Major Courses ..... 18-19 units.  
 CSU General Education or IGETC..... 39 units.  
 Transferable Elective as needed to reach 60 transferable units.  
 Degree Total ..... 60 units.*

## PSYCHOLOGY – MAJOR #7501

The Psychology AA Program is designed to provide a strong academic foundation for students planning to major in Psychology at a four-year institution. Psychology is the scientific study of human behavior and mental processes. Two of the field's key features reflect the highly valuable approach psychology takes to gain knowledge about human behavior. First, psychology emphasizes the use of critical thinking and the scientific method to ask questions, acquire and evaluate information, and solve problems. Second, the field recognizes the complexity of human behavior, and is guided by the idea that a complete understanding of human behaviors, emotions, and thoughts must include an analysis of factors as diverse as biological, interpersonal, and sociocultural influences. Thus, psychology represents a method of inquiry that can be a useful tool for students with a variety of interests and career goals.

Earning an Associate in Arts degree in Psychology may be beneficial for individuals whose vocational plans include working in human or social services (e.g., law enforcement, education, sales, social welfare, and nursing). Students are encouraged to follow the CSU General Education-Breadth or IGETC pattern with the assistance of a counselor.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Students will apply their knowledge of psychology's major theoretical perspectives (psychodynamic, behavioral, biological, humanistic, cognitive, evolutionary, and sociocultural) and its scientific research process when studying topics of interest, including methodologies and ethical concerns within the field's subdisciplines.
2. Students will recognize and analyze the application of psychological concepts and theories to human experiences across the lifespan and within the context of various social and cultural constructs.
3. When presented with information and claims about human behavior and mental processes, students critically evaluate them within a framework that views humans as continually developing physiological, social, and psychological organisms.

REQUIRED CORE COURSES		Units
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
PSY 36	Biological Psychology.....	3
PSY 42	Statistics for the Behavior Sciences.....	4

#### ELECTIVES

DEPTH: Choose two (2) of the following:		Units
PSY 5	Social Psychology.....	3
PSY 12	Child Abuse .....	3
PSY 16	Abnormal Psychology .....	3
PSY 18	The Psychology of Criminal Behavior .....	3

LIFESPAN: Choose one (1) of the following:		Units
PSY 25	Human Sexuality .....	3
PSY 33	Personal & Social Adjustment.....	3
PSY 38	Lifespan Development.....	3
PSY 39	Child Growth and Development.....	3

DIVERSITY: Choose one (1) of the following:		Units
AFRAM 1	Introduction to African American Studies .....	3
AMIND 31	American Indian Culture.....	3
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society.....	3
ANTHRO 2	Cultural Anthropology.....	3
ASAMER 15	Introduction to Asian-Americans.....	3
CLS 11	Introduction to Chicano-Latino Studies.....	3
SOC 2	American Minority Groups .....	3
WSTS 10	Changing Roles of Women.....	3
Total		22

## PSYCHOLOGY FOR TRANSFER – MAJOR #7550

Psychology is a useful major for students with a variety of interests and career goals due to its emphasis on critical thinking, the scientific method of inquiry, and the interactive role that biological, psychological, developmental, and sociocultural factors play in affecting human behavior and mental processes. The associate in arts in Psychology for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the associate in arts in Psychology for Transfer degree, students must complete a minimum of 60 required semester units of CSU-transferable coursework, including either the CSU-GE Breadth or IGETC requirements and 19-20 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Apply their knowledge of psychology's major theoretical perspectives (psychodynamic, behavioral, biological, humanistic, cognitive, evolutionary, and sociocultural) and its scientific research process when studying topics of interest, including methodologies and ethical concerns within the field's subdisciplines.
2. Recognize and analyze the application of psychological concepts and theories to human experiences across the lifespan and within the context of various social and cultural constructs.
3. When presented with information and claims about human behavior and mental processes, critically evaluate them within a framework that views humans as continually developing physiological, social, and psychological organisms.

REQUIRED CORE COURSE		Units
PSY 2/2H	General Psychology, <i>or</i> Honors General Psychology.....	3
PSY 36	Biological Psychology.....	3
PSY/MATH 42	Statistics for the Behavioral Sciences, <i>or</i> MATH 11/11H Elementary Statistics, <i>or</i> Honors Elementary Statistics.....	4
PSY 45	Introduction to Research Methods in Psychology .....	3
Select one of the following courses:		Units
BIOL 5	Human Biology .....	4
PSY 5	Social Psychology.....	3
Choose one of the following courses:		
NOTE: Psychology 5 can be taken in this section only if it was not taken as part of the previous sections		
		Units
PSY 5	Social Psychology.....	3
PSY 16	Abnormal Psychology .....	3
PSY 25	Human Sexuality .....	3
PSY 33	Personal and Social Adjustment.....	3
	Total	19-20

Notes: *Required Major Courses* ..... 19-20 units.  
*CSU General Education or IGETC*..... 39 units.  
*Transferable Elective as needed to reach 60 transferable units.*  
*Degree Total*..... 60 units.

## RADIOLOGIC TECHNOLOGY - MAJOR #4570

Imaging examinations performed by, and accompanying responsibilities assigned to, a radiographer shall be at the direction of physicians qualified to request and/or perform radiologic procedures. Upon completion of the program the radiographer shall be able to:

1. Apply knowledge of anatomy, physiology, and radiographic techniques to demonstrate accurately anatomical structures on a radiograph or other imaging receptor.
2. Determine exposure factors to achieve optimum radiographic techniques with minimum radiation exposure to the patient.
3. Evaluate radiographic images for appropriate positioning and imaging quality.
4. Apply the principles of radiation protection for the patient, self, and others.
5. Provide patient care and comfort.
6. Recognize emergency patient conditions and initiate lifesaving first aid and basic life support procedures.
7. Evaluate the performance of radiologic systems, know the safe limits of equipment operation, and report malfunctions to the proper authority.
8. Exercise independent judgment and discretion in the technical performance of medical imaging procedures.
9. Participate in radiologic quality assurance programs.
10. Assist in fluoroscopic procedures.

Classes are conducted on the Fresno City College campus. Students also attend classes at local hospitals affiliated with the program for clinical experience.

An associate in science degree will be granted upon successful completion of requirements for graduation, which includes formal hospital training. The student will be eligible to take the examination given by the American Registry of Radiologic Technologists upon successful completion of requirements for graduation.

### Admission Policy

Enrollment is limited in the Radiologic Technology Program. There are no restrictions as to age, race, or marital status. In order to qualify for admission to the program, the applicant must have met all of the following conditions:

### Application Requirements

Minimum prerequisite requirements for application to the Radiological Technology Program follow.

1. Have completed and submitted an Academic Summary Form for the Radiologic Technology Program.
2. Have completed Biology 20, Human Anatomy, and Biology 22, Human Physiology, or Biology 21A, Human Anatomy and Physiology I, and Biology 21B, Human Anatomy and Physiology II (or equivalent), with a grade of "C" or better.
3. Have completed Health Information Technology 10, Medical Terminology (or equivalent), with a grade of "C" or better.
4. Have attained a minimum cumulative grade point average (GPA) of "C+" (2.75) in completed college work.
5. Have no physical impairment that would preclude the performance of all radiologic technology duties.
6. Be in good physical and mental health.

Note: *Prior to registration for the semester in which the applicant is scheduled to take courses in Radiologic Technology, the student must submit evidence of physical examination by a licensed physician.*

### Background Check

Upon entry into the program, students will be required to obtain a background check.

### Change of Name, Address, and/or Telephone Number

Applicants and radiologic technology students must keep the Allied Health, Physical Education, and Athletics office informed of any change in name, address, and/or telephone number. Failure of applicants to inform the Allied Health, Physical Education, and Athletics office of this vital information may result in loss of entry into the program.

### Academic Requirements

All program entry requirement courses listed above must be completed with a grade of "C" or better.

Students in the radiologic technology program must earn a "C" grade or better (or a "Credit" grade when applicable) in all program courses. Less than a "C" or a "Credit" grade in any radiologic technology course requires that the course be repeated before continuing with the major. Courses must be repeated in their entirety. Courses may be repeated once only.

Safe professional practice is necessary for retention of students in the program. If a student demonstrates that he/she is unsuited to the profession or is not progressing satisfactorily based on the professional judgment of the faculty, he/she may be asked to withdraw from the program.

**ASSOCIATE IN SCIENCE DEGREE**

*Student Learning Outcome:*

1. Students will pass the ARRT National Registry Examination on the first attempt.

Radiologic Technology Course Sequence (all courses must be completed with grade of "C" or better)

First Year - First Semester	Units
RAD 1A Fundamentals of Radiology Technology.....	6
RAD 1B Basic Radiographic Positioning Laboratory.....	1
RAD 1C Clinical Orientation Laboratory.....	3
RAD 1D Nursing Procedures in Radiologic Technology.....	3
First Year - Second Semester	Units
RAD 2A Radiation Biology.....	6
RAD 2B Advanced Radiographic Positioning Laboratory.....	1
RAD 2C Clinical Observation Laboratory.....	3
RAD 2D Quality Assurance in Radiologic Technology.....	1
First Year - Summer Semester	Units
RAD 3 Basic Clinical Radiologic Technology.....	8
Second Year - First Semester	Units
RAD 4A Pathology in Radiologic Technology.....	2
RAD 4B Advanced Clinical Radiologic Technology.....	12
RAD 4C Advanced Radiologic Positioning Laboratory-Cranium.....	1
Second Year - Second Semester	Units
RAD 5A Special Procedures in Radiologic Technology.....	2
RAD 5B Specialized Clinical Radiologic Technology.....	12
RAD 5C Fluoroscopy.....	2
Second Year - Summer Semester	Units
RAD 6 Concentrated Clinical Radiologic Technology.....	4
Total	67

**RECREATION LEADERSHIP – MAJOR #4300**

This degree is designed to prepare students for employment opportunities in recreation and leisure as well as preparation for transfer to a four year university.

*Student Learning Outcomes:*

1. List and define the programs and services of the recreation programs in the community.
2. Identify and apply the skills needed to be a recreational leader in a community setting.

**ASSOCIATE IN ARTS DEGREE**

<b>CORE COURSES</b>	<b>Units</b>
HLTH 1 Contemporary Health Issues.....	3
HLTH 2 First Aid and Safety.....	3
REC 19 Work Experience (Cooperative), Occupational.....	3
REC 20 Introduction to Recreation.....	3
REC 21 Recreation Leadership.....	3
REC 23 Outdoor Recreation.....	3
PE Courses Four (4) Physical Education Activity.....	4
Total	22

**RECOMMENDED SEQUENCE**

First Semester	Units
HLTH 1 Contemporary Health Issues.....	3
REC 20 Introduction to Recreation.....	3
PE Course Physical Education Activity.....	1
Second Semester	Units
HLTH 2 First Aid and Safety.....	3
REC 19 Work Experience (Cooperative), Occupational.....	3
PE Course Physical Education Activity.....	1
Third Semester	Units
REC 21 Recreation Leadership.....	3
PE Course Physical Education Activity.....	1
Fourth Semester	Units
REC 23 Outdoor Recreation.....	3
PE Course Physical Education Activity.....	1

**RECREATION LEADERSHIP – MAJOR #4300**

This Certificate of Achievement is designed to prepare students for employment opportunities in recreation and leisure as well as preparation for transfer to a four year university.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. List and define the programs and services of the recreation programs in the community.
2. Identify and apply the skills needed to be a recreational leader in a community setting.

<b>REQUIRED COURSES</b>	<b>Units</b>
HLTH 2 First Aid and Safety.....	3
REC 19 Work Experience (Cooperative), Occupational.....	3
REC 20 Introduction to Recreation.....	3
REC 21 Recreation Leadership.....	3
REC 23 Outdoor Recreation.....	3
Total	15

## RESPIRATORY CARE PRACTITIONER

– MAJOR #4610

The Respiratory Care Practitioner (RCP) is a health care specialist involved in managing, diagnostically evaluating, and providing care to patients with deficiencies and abnormalities affecting their cardiopulmonary system. Respiratory care practitioners comprise a critical sector of the allied health care workforce. Next to nurses, RCPs are the most frequently seen health care provider at the patient bedside. Enrollment is limited in the Respiratory Care Practitioner Program. There are no restrictions as to age, race, or marital status. The program is lottery based. In order to qualify for admission to the program, the applicant must have met all of the following conditions: Application Requirements: Minimum prerequisite requirements for application to the Respiratory Care Practitioner Program follow. 1. Graduated from high school with a minimum grade point average (GPA) of 2.0 or completed the General Educational Development test with an average standard score of 45. 2. Completed the following prerequisites with a C or better: Biology 31, Biology 20 and Biology 22 or Biology 21A and Biology 21B, Chemistry 3A, Mathematics 103. Advisory of English 1A. 3. All program entry requirement courses must be completed with a grade of "C" or better. 4. All courses leading to the associate degree must also be completed with a grade of "C" or better. 5. Have attained a minimum cumulative grade point average (GPA) of 2.5 in completed college work. 6. Students in the respiratory care practitioner program must earn a "C" grade or better (or a "Credit" grade when applicable) in all required respiratory care courses. 7. Less than a "C" or a "Pass" grade in any required Respiratory Care course necessitates repeating the course before continuing with the major. 8. Respiratory Care courses must be repeated in their entirety. 9. Course repeatability and failure policy will be followed as outlined in the Respiratory Care Student Handbook. 10. Have no physical impairment that would preclude the performance of any respiratory care practitioner duties. 11. Be in good physical and mental health. 12. Complete application for the RCP program. Applications may be pick up at the Allied Health, Physical Education and Athletics division office. 13. Return the completed application to the division office by the deadline. The application period may be found on the Fresno City College website. 14. Background checks and drug screens are mandatory. 15. Program orientation is mandatory. 16. Safe professional practice is necessary for retention of students in the program. If a student demonstrates that he or she is unsuited to the profession or is not progressing satisfactorily based on the professional judgment of the faculty, the student may be asked to withdraw from the program.

### ASSOCIATE IN SCIENCE DEGREE

Respiratory Care course sequence (all must be completed with a "C" grade or better):

### Student Learning Outcome:

- To prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRT).

<i>FIRST YEAR</i>		Units
RCARE 15	Introduction to Respiratory Care Profession.....	1
RCARE 16	Patient Assessment .....	3
RCARE 16B	Diagnostic Methods .....	3
RCARE 16C	Clinical Applications I .....	1
RCARE 17	Respiratory Care Pharmacology .....	3
RCARE 18	Physiology of the Respiratory System .....	3
RCARE 20	Introduction to Respiratory Care Modalities .....	4
RCARE 21	Applications and Procedures in Respiratory Care.....	3
RCARE 21C	Clinical Applications II .....	1
RCARE 26	Airway Management.....	1.5
<i>SECOND YEAR</i>		Units
RCARE 21B	Clinical Applications III .....	6
RCARE 22	Introduction to Mechanical Ventilation .....	2
RCARE 23	Mechanical Ventilation Management .....	2
RCARE 23B	Clinical Applications IV .....	5
RCARE 24	Neonatal Diseases .....	2
RCARE 24B	Pediatric Diseases .....	2
RCARE 25	Obstructive Respiratory Diseases .....	2
RCARE 25B	Restrictive Disorders and Trauma .....	2
RCARE 27	Respiratory Care Review and Simulations .....	1
		Total
		47.5

### RECOMMENDED SEQUENCE

First Semester		Units
RCARE 15	Introduction to Respiratory Care Profession.....	1
RCARE 16	Patient Assessment .....	3
RCARE 16C	Clinical Applications I .....	1
RCARE 17	Respiratory Care Pharmacology .....	3
RCARE 20	Introduction to Respiratory Care Modalities .....	4
Second Semester		Units
RCARE 16B	Diagnostic Methods .....	3
RCARE 18	Physiology of the Respiratory System .....	3
RCARE 21	Applications and Procedures in Respiratory Care.....	3
RCARE 21C	Clinical Applications II .....	1
RCARE 26	Airway Management.....	1.5
Third Semester		Units
RCARE 21B	Clinical Applications III .....	6
RCARE 22	Introduction to Mechanical Ventilation .....	2
RCARE 24	Neonatal Diseases .....	2
RCARE 25	Obstructive Respiratory Diseases .....	2

Fourth Semester	Units
RCARE 23 Mechanical Ventilation Management.....	2
RCARE 23B Clinical Applications IV.....	5
RCARE 24B Pediatric Diseases.....	2
RCARE 25B Restrictive Disorders and Trauma .....	2
RCARE 27 Respiratory Care Review and Simulations.....	1

*Note: All applications requirements, program requirements, and selection criteria are subject to change. Students will enter the selection pool based on the current catalog or catalog supplement. Contact a Fresno City College Health Science Counselor every semester for current information.*

## SIGN LANGUAGE INTERPRETING PREPARATION PROGRAM – MAJOR #5101

To prepare students for entry-level interpreting positions in a variety of settings such as schools, social service agencies and limited medical situations.

### CERTIFICATE OF ACHIEVEMENT

*Student Learning Outcome:*

1. Discuss and apply knowledge of linguistic, cross-cultural and interpretation theories.
2. Demonstrate communicative competency in English and in ASL through effective communication in settings with speakers of varying age, gender and ethnicity.
3. Analyze, identify, and apply personal, professional and ethical decisions in a manner consistent with theoretical models and standard professional practice.
4. Formulate effective one-on-one group interpretation/transliteration in limited settings.

REQUIRED CORE COURSES	Units
ASL 4 High-Intermediate American Sign Language .....	4
ASL 5 Deaf Culture .....	3
ASL 6 Structure of American Sign Language .....	3
ASL 7 Deaf History .....	3
ASL 8 American Sign Language Literature/Folklore.....	3
ASL 20 Introduction to Interpreting.....	3
ASL 21 American Sign Language to English Translation ..	3
ASL 22 English to American Sign Language Translation ..	3
Total	25

## SOCIOLOGY FOR TRANSFER – MAJOR #7600

The Associate in Arts in Sociology for Transfer degree is designed to acquaint students with tools to understand the functioning of the society in which they live. The degree offers students a broad and multicultural perspective of the world around them and also provides them with a solid foundation for further study in sociology. Sociology can assist in

occupations such as teaching, social work, drug and alcohol counseling, police work, probation aides, juvenile hall counseling, medical work, international business, and any other occupation that places you in contact with people of diverse backgrounds. The Associate in Arts in Sociology for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. To earn the associate in arts in Sociology for Transfer degree, students must complete the following requirements: Completion of 60 semester units that are eligible for transfer to the California State University, including all of the following: Students must earn a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements (CSU-GE). Completion of a minimum of 18 semester units in the associate in arts degree in Sociology for Transfer as identified by the Fresno City College catalog. Students must earn a "C" or better in all of the courses required for this degree.

*Student Learning Outcome:*

1. Understand the complexity of social life, including an understanding of the social forces that shape institutions in society, sources of societal problems, and remedies to address those problems.

REQUIRED COURSES	Units
PSY 5 Social Psychology.....	3
PSY/MATH 42 Statistics for the Behavioral Sciences, <i>or</i>	
MATH 11 Elementary Statistics.....	4
SOC 1A/1AH Introduction to Sociology, <i>or</i>	
Honors Introduction to Sociology .....	3
SOC 1B Critical Thinking about Social Problems .....	3
SOC 32 Introduction to Marriage and Family .....	3
Choose one of the following 3-unit courses:	Units
AMST 10 American Pluralism: A Search for Common	
Ground in a Multicultural Society.....	3
ANTHRO 2/2H Cultural Anthropology, <i>or</i>	
Honors Cultural Anthropology .....	3
HS 20 Introduction to Social Welfare .....	3
SOC 2 American Minority Groups .....	3
SOC/WSTS 5 Sociology of Rape .....	3
SOC/WSTS 7 Domestic Violence: Abuse within the Family.....	3
SOC/HS 10 Introduction to Aging Studies.....	3
SOC/CLS 14 Sociology of the Mexican American	
Community .....	3
SOC 31 The Child in Society: A Social Problems	
Approach.....	3
WSTS 10 Changing Roles of Women.....	3

*Notes: Required Major Courses ..... 19 units.  
 CSU General Education or IGETC..... 39 units.  
 Transferable Elective as needed to reach 60 transferable units.  
 Degree Total ..... 60 units.*

## SPANISH FOR TRANSFER – MAJOR #5550

The Associate in Arts in Spanish for Transfer is designed to prepare students for further study in Spanish at the university level. A degree in Spanish is a great way to prepare students for entry into a variety of career options requiring intermediate or better levels of fluency. The Associate in Arts in Spanish major also acquaints students with the cultures of Spanish speaking countries. The Associate in Spanish for Transfer is specifically designed for students who plan to complete a bachelor's degree in Spanish at a CSU campus. To earn the Associate in Spanish for Transfer, students must complete 60 required semester units of CSU-transferable coursework, CSU-GE Breadth or IGETC requirements and 21-24 semester units within the major. Students must maintain a minimum 2.0 GPA, including grades of C or higher in each course taken to fulfill the major. The local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admissions and transfer requirements.

1. Students entering the Spanish program at Spanish 2 or higher are required to complete the specified unit requirements of the degree. Students must consult with the Foreign Language Department Chair for approval of course substitutions.
2. Some of the above courses may have prerequisite. See the catalog or schedule of classes.
3. The Associate Degree requires completion of the major (21-24 units) with a "C" or better in each course plus the completion of the General Education (either CSU-GE Breadth or IGETC) for a total of 60 semester units with a 2.0 or better GPA.
4. Two of the following courses may be challenged according to Foreign Language Department policy: Spanish 1, 2.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Engage in conversation using the Spanish in the daily life situation.
2. Read with a certain depth of understanding magazine or newspaper articles, short stories, and literacy excerpts written in Spanish.
3. Write at the advanced level in a variety of modalities including personal and professional letters, short narratives, and descriptive essays.
4. Recognize and understand cultural similarities and differences between U.S. culture and that of the Spanish speaking world. Distinguish simple behavioral patterns that represent these cultures and behave in culturally appropriate ways in specific situations.

REQUIRED CORE COURSES		Units
SPAN 1	Beginning Spanish.....	5
SPAN 2	High-Beginning Spanish.....	5
SPAN 3	Intermediate Spanish, <i>or</i>	
SPAN 3NS	Intermediate Spanish for Spanish Speakers.....	5
SPAN 4	High-Intermediate Spanish, <i>or</i>	
SPAN 4NS	High-Intermediate Spanish for Spanish Speakers.....	5

Group A: Select a minimum of four (4) additional units from the following list		Units
SPAN 5	The Short Story: Mexico, Spain, and the U.S. ....	4
SPAN 6	The Short Story: Latin American.....	4
SPAN 7	Advanced Spanish: Composition and Grammar .....	4
SPAN 8	Advanced Spanish Conversation.....	4
SPAN 9	Spanish Business and Culture .....	4
SPAN 41	Introduction to Poetry in Spanish.....	4
SPAN 42	Hispanic American Culture.....	4
Total		21-24

## THEATRE ARTS – MAJOR #5440

The Theatre Arts major is a performance oriented major. It emphasizes a "hands on" approach and places special focus on the "well rounded" theatre artist. Students who complete the program can successfully transfer to a competitive four-year university or conservatory.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Demonstrate the acting process from script and character analysis, through a performance before an audience.
2. Demonstrate basic proficiency in technical theatre production.
3. Analyze a play in context of its historical period, structure, theme, character, style and other components of drama.

REQUIRED COURSES		Units
TA 23	Technical Theatre Practicum.....	3
TA 25	Stagecraft, <i>or</i>	
TA 35	Costume Craft, <i>or</i>	
TA 36	Costume Design .....	3
TA 30	Theatre Appreciation, <i>or</i>	
TA 15C	Creative Writing: Playwriting, <i>or</i>	
TA 38	Script Analysis.....	3
TA 31	Theatre History and Literature I, <i>or</i>	
TA 32	Theatre History and Literature II .....	3
TA 41	Beginning Acting, <i>or</i>	
TA 42	Beginning Acting for Theatre Majors.....	3
TA 43	Intermediate Acting .....	3
TA 46	Voice for the Actor.....	3

Three Units from the Following Courses:		Units
TA 28	Introduction to Stage Makeup .....	3
TA 40	Performance Practicum .....	3
TA 44A	Actors Workshop.....	3
TA 48A	Teasers I .....	0.5

## THEATRE ARTS FOR TRANSFER – MAJOR #5445

The Associate in Arts in Theatre Arts for Transfer degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. To earn the associate in arts transfer degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Local graduation requirements are not required for the transfer degree. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Students are required to complete: A) 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. B) 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. C) No more than 60 semester units are required.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Identify the literature and styles of theatre.
2. Demonstrate the acting process.
3. Demonstrate the production process.

CORE COURSES	Units
TA 30 Theatre Appreciation, <i>or</i>	
TA 31 Theatre History and Dramatic Literature I.....	3
TA 40 Performance Practicum, <i>or</i>	
TA 23 Technical Theatre Practicum .....	3
TA 41 Beginning Acting, <i>or</i>	
TA 42 Beginning Acting for Theatre Majors.....	3

Elective Courses: Select 9 Units from the following courses:

	Units
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<i>Note: TA 40 can be taken in this section only if they were not taken as part of the core.</i>	
TA 25 Stagecraft .....	3
TA 27B Introduction to Lighting Design.....	3
TA 28 Introduction to Stage Makeup .....	3
TA 36 Costume Design.....	3
TA 38 Script Analysis .....	3
TA 40 Performance Practicum .....	3
TA 43 Intermediate Acting .....	3

*Notes: Required Major Courses ..... 18 units.  
 CSU General Education or IGETC..... 39 units.  
 Transferable Elective as needed to reach 60 transferable units.  
 Degree Total..... 60 units.*

## DESIGN/TECHNICAL THEATRE STUDIES

### – MAJOR #5482

The Design/Technical Theatre Studies major emphasizes a hands on approach and places special focus on the well-rounded theatre artist.

Students who complete the program can successfully transfer to a four-year university or conservatory.

### ASSOCIATE IN ARTS DEGREE

#### *Student Learning Outcomes:*

1. Analyze a play in the context of its historical period, structure, theme, character, style and synthesize these components with research in the creation of a theatrical design.
2. Demonstrate the performance process as an actor from rehearsal to preparing to performance.
3. Demonstrate the production from construction/installation through technical rehearsals and performance before an audience.

REQUIRED COURSES	Units
TA 23 Technical Theatre Practicum.....	3
TA 25 Stagecraft .....	3
TA 30 Theatre Appreciation, <i>or</i>	
TA 31 Theatre History and Literature I, <i>or</i>	
TA 38 Script Analysis.....	3
TA 35 Costume Crafts .....	3
TA 41 Beginning Acting, <i>or</i>	
TA 42 Beginning Acting for Theatre Majors.....	3

Select one of the following courses:	Units
TA 27A Introduction to Scenic Design .....	3
TA 27B Introduction to Lighting Design.....	3
TA 28 Introduction to Stage Makeup .....	3
TA 36 Costume Design.....	3

Select six units from the following list

	Units
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(Note: Courses used in the above list may not be repeated for this list.):

TA 15C Creative Writing: Playwriting.....	3
TA 27A Introduction to Scenic Design .....	3
TA 27B Introduction to Lighting Design.....	3
TA 28 Introduction to State Makeup .....	3
TA 29A Advanced Technical Theatre Practicum I .....	1
TA 29B Advanced Technical Theatre Practicum II .....	1
TA 31 Theatre History and Dramatic Literature I .....	3
TA 32 Theatre History and Dramatic Literature II .....	3
TA 36 Costume Design.....	3
TA 38 Script Analysis .....	3
TA 39A Intermediate Crew Practicum I.....	1
TA 39B Intermediate Crew Practicum II.....	1
TA 40 Performance Practicum .....	3
TA 45 Kennedy Center American College Theater Festival Topics .....	2
TA 49 Introduction to Theatre Design .....	3

#### *Notes:*

1. Recommended electives for Physical Education: DANCE 10, 11, 12A, 14, & 16.



## WELDING TECHNOLOGY

### AUTOMATED WELDING SYSTEMS - MAJOR #8377

Introduction into the setup, programming, troubleshooting and operation of welding automation using six axis welding robots.

#### CERTIFICATE OF ACHIEVEMENT

##### *Student Learning Outcomes:*

1. Safely operate common robotic welding automation systems while performing advanced programming and welding functions.
2. Analyze the theory and skills necessary for performing advanced programming and operational tasks.

REQUIRED COURSES	Units
WELD 3A Welding Design and Fabrication .....	5
WELD 3B Intermediate Welding Design and Fabrication .....	5
WELD 5A Automated Welding .....	3
WELD 5B Advanced Automated Welding and Cutting .....	3
Total	16

### METAL FABRICATION OPTION - MAJOR #8371

Instruction in the design and fabrication of metal projects by welding and related practices. Skills will be taught in design, manufacturing processes, production techniques, and material cost estimation.

#### ASSOCIATE IN SCIENCE DEGREE

##### *Student Learning Outcomes:*

1. Given an idea or description, students will be able to design and plan the construction of one or more advanced metal fabricated projects.
2. From design and specifications, students will be able to determine estimated steel weights and cost calculations.
3. Students will be able to demonstrate the proper safety precautions, setup and use of tools and equipment common to metal fabrication.
4. In the construction of their project, students will apply various types of welds and other joining processes with quality workmanship to assemble the metal components of advanced projects.
5. During the construction of their project, students will demonstrate the efficient use of time and materials to produce their advanced projects.

REQUIRED CORE COURSES	Units
AT 10 Technical Computer Applications .....	3
AT 21 Occupational Safety and Health .....	2
AT 40 Preparing for Employment Opportunities .....	3
AT 130 Industrial Mathematics .....	3
CADD 16 3D Solid Modeling I .....	3
DRAFT 12 Drafting Practices .....	3

WELD 2A	Introduction to Welding Technology, <i>and</i>		
WELD 2B	Advanced Multi-Process Welding, <i>or</i>		
WELD 6A	Shielded Metal Arc Welding Theory and Application, <i>and</i>		
WELD 6B	Semi-Automatic Wire Feed Welding, <i>and</i>		
WELD 6C	Gas Tungsten Arc Welding Theory and Application.....	10.5-11	
WELD 3A	Welding Design and Fabrication .....	5	
WELD 3B	Intermediate Welding Design and Fabrication .....	5	
ELECTIVES (Select 1 course)			Units
AT 140	Introduction to Machine Shop .....	3	
CADD 24	2D CAD II .....	3	
CAM 10	CNC Mill Programming & Operation I .....	4	
ENGR 10	Introduction to Engineering .....	2	
ENGR 11	Manufacturing Processes .....	3	
WELD 56	Blueprint Reading for Welders.....	2	
	Total	39.5-42	

#### FIRST YEAR

First Semester	Units
AT 10 Technical Computer Applications .....	3
AT 130 Industrial Mathematics .....	3
WELD 2A	Introduction to Welding Technology, <i>or</i>
WELD 6A	Shielded Metal Arc Welding Theory and Application.....
	3.5-6

Second Semester	Units
AT 21 Occupational Safety and Health .....	2
AT 40 Preparing for Employment Opportunities .....	3
CADD 16 3D Solid Modeling I .....	3
WELD 2B	Advanced Multi-Process Welding, <i>or</i>
WELD 6B	Semi-Automatic Wire Feed Welding.....
	3.5-5

#### SECOND YEAR

First Semester	Units
DRAFT 12 Drafting Practices .....	3
WELD 3A	Welding Design and Fabrication .....
WELD 6C	Gas Tungsten Arc Welding Theory and Application .....
	3.5

Second Semester	Units
WELD 3B	Intermediate Welding Design and Fabrication .....
Electives	.....
	2-4

*Note: Associate degree requirements are listed on page 37.*

**METAL FABRICATION OPTION - MAJOR #8371**

Instruction in the design and fabrication of metal projects by welding. Skills will be taught in design, manufacturing processes, production techniques, and material cost estimation.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Given an idea or description, students will be able to design and plan the construction of one or more advanced metal fabricated projects.
2. From design and specifications, students will be able to determine estimated steel weights and cost calculations.
3. Students will be able to demonstrate the proper safety precautions, setup and use of tools and equipment common to metal fabrication.
4. In the construction of their project, students will apply various types of welds and other joining processes with quality workmanship to assemble the metal components of their advanced projects.

REQUIRED CORE COURSES		Units
AT 10	Technical Computer Applications .....	3
AT 21	Occupational Safety and Health .....	2
AT 40	Preparing for Employment Opportunities .....	3
AT 130	Industrial Mathematics .....	3
CADD 16	3D Solid Modeling I.....	3
DRAFT 12	Drafting Practices .....	3
WELD 2A	Introduction to Welding Technology, <i>and</i>	
WELD 2B	Advanced Multi-Process Welding, <i>or</i>	
WELD 6A	Shielded Metal Arc Welding Theory and Application, <i>and</i>	
WELD 6B	Semi-Automatic Wire Feed Welding, <i>and</i>	
WELD 6C	Gas Tungsten Arc Welding Theory and Application.....	10.5-11
WELD 3A	Welding Design and Fabrication .....	5
WELD 3B	Intermediate Welding Design and Fabrication .....	5
ELECTIVES (Select 1 course)		Units
CADD 24	2D CAD II.....	3
CAM 10	CNC Mill Programming & Operation I .....	4
ENGR 10	Introduction to Engineering .....	2
ENGR 11	Manufacturing Processes .....	3
WELD 56	Blueprint Reading for Welders.....	2
Total		39.5-42

**FIRST YEAR**

First Semester		Units
AT 10	Technical Computer Applications .....	3
AT 130	Industrial Mathematics .....	3
WELD 2A	Introduction to Welding Technology, <i>or</i>	
WELD 6A	Shielded Metal Arc Welding Theory and Application.....	3.5-6
Second Semester		Units
AT 21	Occupational Safety and Health .....	2
AT 40	Preparing for Employment Opportunities .....	3
CADD 16	3D Solid Modeling I.....	3

WELD 2B	Advanced Multi-Process Welding, <i>or</i>	
WELD 6B	Semi-Automatic Wire Feed Welding.....	3.5-5
<b>SECOND YEAR</b>		
First Semester		Units
DRAFT 12	Drafting Practices.....	3
WELD 3A	Welding Design and Fabrication .....	5
WELD 6C	Gas Tungsten Arc Welding Theory and Application.....	3.5
Second Semester		Units
WELD 3B	Intermediate Welding Design and Fabrication .....	5
Electives	.....	2-4

**PIPE AND STRUCTURAL STEEL CERTIFICATION**

– FORMERLY PIPE AND STRUCTURAL STEEL CERTIFICATION

**OPTION - MAJOR #8375**

Welding technology provides an opportunity for students to prepare for employment in welding and metal occupations. Specific preparation is provided in welding and metal fabrication or pipe and steel certification procedures.

Pre-employment training for structural steel and pipe welding technicians. An emphasis is placed on developing certification code-level proficiency in the use of shielded metal arc and flux cored arc welding procedures used in the construction of components on bridges, building, and pressure vessel systems.

**ASSOCIATE IN SCIENCE DEGREE***Student Learning Outcomes:*

1. Students will demonstrate correct usage of all weld symbols on the American Welding Society welding symbols chart.
2. Students will weld in all welding positions.
3. Students will correctly use ASME, AWS and API codes.
4. Students will perform and weld different pipe configurations according to specification.

REQUIRED CORE COURSES		Units
AT 10	Technical Computer Applications .....	3
AT 21	Occupational Safety and Health .....	2
AT 40	Preparing for Employment Opportunities .....	3
AT 130	Industrial Mathematics.....	3
DRAFT 12	Drafting Practices.....	3
WELD 2A	Introduction to Welding Technology, <i>and</i>	
WELD 2B	Advanced Multi-Process Welding, <i>or</i>	
WELD 6A	Shielded Metal Arc Welding Theory and Application, <i>and</i>	
WELD 6B	Semi-Automatic Wire Feed Welding, <i>and</i>	
WELD 6C	Gas Tungsten Arc Welding Theory and Application.....	10.5-11

WELD 4A	Heavy Plate, Structural Steel and Welding Certification .....	5
WELD 4B	Pipe, Tube Welding and Certification.....	5
ELECTIVES (Select 2 courses)		Units
CADD 14	2D CAD I.....	3
CADD 24	2D CAD II.....	3
ENGR 10	Introduction to Engineering.....	2
ENGR 11	Manufacturing Processes.....	3
WELD 56	Blueprint Reading for Welders.....	2
Total		38.5-41

**FIRST YEAR**

First Semester		Units
AT 10	Technical Computer Applications.....	3
AT 130	Industrial Mathematics.....	3
DRAFT 12	Drafting Practices.....	3
WELD 2A	Introduction to Welding Technology, <i>or</i>	
WELD 6A	Shielded Metal Arc Welding Theory and Application.....	3.5-6
Second Semester		Units
AT 21	Occupational Safety and Health.....	2
AT 40	Preparing for Employment Opportunities.....	3
WELD 2B	Advanced Multi-Process Welding, <i>or</i>	
WELD 6B	Semi-Automatic Wire Feed Welding.....	3.5-5

**SECOND YEAR**

First Semester		Units
WELD 4A	Heavy Plate, Structural Steel and Welding Certification.....	5
WELD 6C	Gas Tungsten Arc Welding Theory and Application.....	3.5
Recommended Elective .....		2-3
Second Semester		Units
WELD 4B	Pipe, Tube Welding and Certification.....	5
Recommended Elective .....		2-3



**PIPE AND STRUCTURAL STEEL CERTIFICATION**

– FORMERLY PIPE AND STRUCTURAL STEEL CERTIFICATION  
 OPTION – MAJOR #8375

Welding technology provides an opportunity for students to prepare for employment in welding and metal occupations.

Pre-employment training for structural steel and pipe welding technicians. An emphasis is placed on developing certification code-level proficiency in the use of shielded metal arc and flux cored arc welding procedures used in the construction of components on bridges, building, and pressure vessel systems.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Students will demonstrate correct usage of all weld symbols on the American Welding Society welding symbols chart.
2. Students will weld in all welding positions.
3. Students will correctly use ASME, AWS and API codes.
4. Students will perform and weld different pipe configurations according to specification.

**REQUIRED CORE COURSES**

		Units
AT 10	Technical Computer Applications .....	3
AT 21	Occupational Safety and Health .....	2
AT 40	Preparing for Employment Opportunities .....	3
AT 130	Industrial Mathematics.....	3
DRAFT 12	Drafting Practices.....	3
WELD 2A	Introduction to Welding Technology, <i>and</i>	
WELD 2B	Advanced Multi-Process Welding, <i>or</i>	
WELD 6A	Shielded Metal Arc Welding Theory and Application, <i>and</i>	
WELD 6B	Semi-Automatic Wire Feed Welding, <i>and</i>	
WELD 6C	Gas Tungsten Arc Welding Theory and Application.....	10.5-11
WELD 4A	Heavy Plate, Structural Steel and Welding Certification.....	5
WELD 4B	Pipe, Tube Welding and Certification.....	5
ELECTIVES (Select 2 courses)		Units
CADD 14	2D CAD I.....	3
CADD 24	2D CAD II.....	3
ENGR 10	Introduction to Engineering.....	2
ENGR 11	Manufacturing Processes.....	3
WELD 56	Blueprint Reading for Welders.....	2
Total		38.5-41

**FIRST YEAR**

First Semester		Units
AT 10	Technical Computer Applications .....	3
AT 130	Industrial Mathematics .....	3
DRAFT 12	Drafting Practices .....	3
WELD 2A	Introduction to Welding Technology, <i>or</i>	
WELD 6A	Shielded Metal Arc Welding Theory and Application .....	3.5-6
Second Semester		Units
AT 21	Occupational Safety and Health .....	2
AT 40	Preparing for Employment Opportunities .....	3
WELD 2B	Advanced Multi-Process Welding, <i>or</i>	
WELD 6B	Semi-Automatic Wire Feed Welding .....	3.5-5
SECOND YEAR		Units
First Semester		Units
WELD 4A	Heavy Plate, Structural Steel and Welding Certification .....	5
WELD 6C	Gas Tungsten Arc Welding Theory and Application .....	3.5
Recommended Elective .....		2-3
Second Semester		Units
WELD 4B	Pipe, Tube Welding and Certification .....	5
Recommended Elective .....		2-3

### WELDING AND FABRICATION ENTREPRENEURSHIP - MAJOR #8376

The welding and fabrication program introduces students to the fundamentals of welding and fabrication business ownership. The focus is on developing core fabrication and workmanship skills with key business startup skills. The certificate prepares students for entrepreneurial ventures within the field of welding and fabrication.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Perform safety precautions, setup and use of tools and equipment
2. Apply welds and assemble the steel components of advanced projects.
3. Weld pipe configurations according to specification.
4. Create, operate, manage and market a welding and fabrication startup.
5. Complete a business plan.

REQUIRED COURSES		Units
BA 51	Business Planning and New Venture Launch ....	1.5
BA 52	Introduction to Entrepreneurship .....	3

WELDING COURSES		Units
WELD 3A	Welding Design and Fabrication, <i>and</i>	
WELD 3B	Intermediate Welding Design and Fabrication, <i>or</i>	
WELD 4A	Heavy Plate, Structural Steel and Welding Certification, <i>and</i>	
WELD 4B	Pipe, Tube Welding and Certification .....	10
Total		14.5

### WELDING DESIGN & FABRICATION - MAJOR #8374

This certificate of achievement provides pre-employment training for an entry level job in the welding fabrication industry. Instruction in the design and fabrication of metal projects will be completed through the welding process. Skills will be taught in design, materials cost estimation and manufacturing processes.

**CERTIFICATE OF ACHIEVEMENT***Student Learning Outcomes:*

1. Given an idea or description students will be able to design and plan the construction of one or more advanced metal fabricated projects.
2. From the design and specifications, students will be able to determine estimated steel weights and cost calculations.
3. Students will be able to demonstrate the proper safety precautions, setup and use of tools and equipment common to metal fabrication.
4. In the construction of their project, students will apply various types of welds with quality workmanship to assemble the steel components of advanced projects.
5. During the construction of their project, students will demonstrate the efficient use of time and materials to produce advanced projects.

**FIRST YEAR**

First Semester		Units
AT 10	Technical Computer Applications .....	3
CADD 16	3D Solid Modeling I .....	3

Second Semester		Units
WELD 3A	Welding Design and Fabrication .....	5

**SECOND YEAR**

First Semester		Units
WELD 3B	Intermediate Welding Design and Fabrication .....	5
Total		16

**WELDING MULTI-PROCESS – MAJOR #8373**

This certificate provides pre-employment training for an entry level job in the welding industry. Instruction in the areas of shielded metal, gas metal, gas tungsten and flux cored arc welding along with oxyacetylene cutting and plasma cutting will be presented. Skills will include welding in the flat, horizontal, vertical and overhead positions with the various processes as well as welding with aluminum and stainless steel with the Gas Metal and Gas Tungsten arc welding processes. Students will also use common power and hand tools to compliment related to the welding industry.

**CERTIFICATE OF ACHIEVEMENT**

*Student Learning Outcomes:*

1. Identify defects and discontinuities in their horizontal, vertical, and overhead welds according to AWS (American Welding Society) standards.
2. Given a power source, students will be able to properly set up and adjust the SMAW, GMAW, GTAW, FCAW and air carbon arc gouging machines to complete their lab assignments to AWS standards.
3. Given a drawing with weld symbols and specifications, students will be able to prepare their metal and perform the correct weld.

REQUIRED COURSES		Units
AT 130	Industrial Mathematics .....	3
DRAFT 12	Drafting Practices .....	3
WELD 2A	Introduction to Welding Technology, <i>and</i>	
WELD 2B	Advanced Multi-Process Welding, <i>or</i>	
WELD 6A	Shielded Metal Arc Welding Theory and Application, <i>and</i>	
WELD 6B	Semi-Automatic Wire Feed Welding, <i>and</i>	
WELD 6C	Gas Tungsten Arc Welding Theory and Application .....	10.5-11
		Total 16.5-17

First Year - First Semester		Units
AT 130	Industrial Mathematics .....	3
WELD 2A	Introduction to Welding Technology, <i>or</i>	
WELD 6A	Shielded Metal Arc Welding Theory and Application .....	3.5-6

First Year - Second Semester		Units
DRAFT 12	Drafting Practices .....	3
WELD 2B	Advanced Multi-Process Welding, <i>or</i>	
WELD 6B	Semi-Automatic Wire Feed Welding .....	3.5-5

Second Year - First Semester (For WELD 6 series)		Units
WELD 6C	Gas Tungsten Arc Welding Theory and Application .....	3.5

**WOMEN'S STUDIES – MAJOR #7610**

This is a transfer program designed to inform students of the historical and contemporary issues affecting women's lives. Women's Studies offers a broad interdisciplinary approach to the study of women in society including their contrasting roles circumscribed by their culture and social institutions, their opportunities for self expression, achievement and self actualization, their relationships with parents, peers, intimates and children, and their concern for survival in a violent-prone society. Because Women's Studies is interdisciplinary, it also provides an academic background helpful to those planning careers in law, business, education and medicine.

**ASSOCIATE IN ARTS DEGREE**

*Student Learning Outcomes:*

1. Evaluate the role of women and gender relationships in various cross-and inter-cultural contexts.
2. Analyze the study of the intersections and complications of class, race, age, ethnicity, nationality, health/disability, and sexual identity as fundamental categories of social and cultural analysis.
3. Engage in in-depth examination of one aspect of women's experience learned through (for example) a literary genre, a time period, a geographic region, or focus on a very narrow topic.
4. Connect ideas and concepts from various fields about oppression and patriarchy as these affect women to common themes or topics.
5. Evaluate the roles of women in society from a historical and sociological perspectives.

*Program Requirements* 20

REQUIRED CORE COURSES		Units
WSTS 10	Changing Roles of Women .....	3
WSTS/HS 25	Assertiveness Training .....	2
Course Options: Select a minimum of 15 units		Units
AMST 10	American Pluralism: A Search for Common Ground in a Multicultural Society .....	3
WSTS/SOC 5	Sociology of Rape .....	3
WSTS/SOC 7	Domestic Violence: Abuse within the Family .....	3
WSTS/HIST 22	History of American Women .....	3
WSTS/CLS 24	La Chicana and Latina .....	3
WSTS/ENGL 36	Women's Literature .....	3
WSTS/AFRAM 41	African-American Women's Studies .....	3
WSTS/FN 43	Women's Nutrition .....	2
WSTS 44	Women in Management .....	3
WSTS 47	Introduction to Lesbian and Gay Studies .....	3
		Total 20

*Note: Associate degree requirements are listed on page 37.*

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# COURSE DESCRIPTIONS

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*Descriptions of courses offered at Fresno City College follow in alphabetical order.*

## Repeating a Course

It is the policy of this District that, unless specifically exempted by statute or regulation, every course, section or class, reported for state aid, wherever offered and maintained by the District, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to Subchapter 1, Chapter 6, Division 6, Title 5 of the California Code of Regulations, commencing with Section 55000.

Courses generally offered in only one of the two regular semesters are identified with a Fall (fall semester) or Spring (spring semester). Courses generally offered in only the evening program or during the summer session are so designated.

The State has mandated the maximum number of times a course may be repeated is three (3).

## Key to Graduation or Transfer Status Designations

The identification of the transfer acceptance of Fresno City College courses by the California State University and University of California systems was one of the outcomes of the Fresno City College Student Success Project. Listed at the end of each course description, if applicable, are abbreviations identifying the transfer or graduation status of the course. The key to the abbreviations follows:

A	Associate degree applicable
CSU	Transferable to the California State University system
CSU-GE	Meets the general education requirements for California State University transfer certification. Completion of all courses in the California State University General Education transfer certification pattern will permit a student to transfer to a campus in the California State University system without having to complete additional lower division general education courses after transfer.

I Meets the requirements of the Intersegmental General Education Transfer Curriculum (IGETC). Completion of all IGETC requirements will permit a student to transfer to a campus in either the California State University or University of California system without having to complete additional lower division general education courses after transfer.

UC Transferable to the University of California system

## Schedule of Classes

The schedule of classes contains information necessary for registration and is available at the Admissions Office. Where no prerequisite is indicated, none is required except as explained in the section on "Prerequisites" which follows. Students should study the Schedule of Classes very carefully before completing registration.

## Course Credit Limitation

A student shall not be granted credit for the completion of a course that is a prerequisite for another course previously completed by the student.

## Prerequisites/Corequisites/Advisories

Students are urged to study the description of courses in this catalog to ensure that prerequisites are satisfied before registering for a course. Correct registration at an early date is important.

It is the student's responsibility to be certain that they have met the necessary prerequisite(s) for any course taken. The student may be dropped from any class where it is verified that the necessary prerequisite has not been taken.

It should be understood by the student that whether or not a prerequisite is specifically stated, the instructional staff of this college assumes that each student who enrolls in a transfer-level course possesses sufficient competencies in the areas of reading, writing, and mathematics to be able to profit from instruction.

Advisory indicates that the institution recommends, but does not require, certain course work be taken prior to enrolling in the described course.

Corequisite indicates that the course must be taken simultaneously with another course if not already completed.

Prerequisite is defined to mean a condition of enrollment that a student must meet in order to register in a course or program. A student may challenge any prerequisite by completing the Prerequisite Challenge Form available in the Counseling Center.

## Course Numbering System

- 1-99: Associate degree applicable courses that are also transferable to baccalaureate institutions
- 100-199: Associate degree applicable courses that are NOT transferable to baccalaureate institutions
- 200-299: Nondegree applicable credit courses
- 300-399: Noncredit courses

## Course Classification System

Pursuant to revisions to the California Administrative Code, Title 5, Sections 55000 and 55062, all courses listed within the college catalog fall into one of the following classifications:

- Credit, Degree Applicable
- Credit, Nondegree Applicable
- Noncredit

The majority of courses have retained their previous classification and are credit, degree applicable. The exceptions are as follows:

### A. Credit, Nondegree Applicable

Admin of Justice 204	Instructor Training/Academy Instructor
Admin of Justice 211	Expandable Straight Baton Instructor
Admin of Justice 217	Background Investigation
Admin of Justice 219	Requalification-Basic Course
Admin of Justice 222	Internal Affairs Investigator
Admin of Justice 224	Interview and Interrogation
Admin of Justice 225	Standardized Field Sobriety Tests (SFSTs)
Admin of Justice 226	Advanced Roadside Impaired Driving Enforcement (ARIDE)
Admin of Justice 227	ICI Gang Investigations Course
Admin of Justice 227A	ICI Major Drug Investigation Course
Admin of Justice 227B	ICI Criminal Investigator Core Course
Admin of Justice 227C	ICI Vehicle Theft Course
Admin of Justice 227D	ICI Advanced Gang Investigations
Admin of Justice 233	AR-15 Armorer Course
Admin of Justice 233A	Tactical Firearms
Admin of Justice 233B	Firearms – Tactical Rifle
Admin of Justice 233C	Civil Procedures for Law Enf Officers
Admin of Justice 233D	CalGang End User Training
Admin of Justice 233E	Police Training Officer (PTO)
Admin of Justice 233F	Wilderness Tracking
Admin of Justice 233G	Electronic Weapons
Admin of Justice 233H	Driving (PSP)
Admin of Justice 233I	Court & Temporary Holding Facility

Admin of Justice 233J  
Admin of Justice 233K  
Admin of Justice 233L  
Admin of Justice 233M  
Admin of Justice 233Q  
Admin of Justice 233R  
Admin of Justice 233S  
Admin of Justice 233T  
Admin of Justice 233U

Admin of Justice 233V  
Admin of Justice 233W  
Admin of Justice 233X  
Admin of Justice 233Y  
Admin of Justice 233Z  
Admin of Justice 234  
Admin of Justice 234A  
Admin of Justice 234B  
Admin of Justice 234C  
Admin of Justice 235  
Admin of Justice 235A  
Admin of Justice 235B

Admin of Justice 235C  
Admin of Justice 235D  
Admin of Justice 235E  
Admin of Justice 235F

Admin of Justice 235G  
Admin of Justice 240  
Admin of Justice 240A  
Admin of Justice 240B  
Admin of Justice 240D  
Admin of Justice 240E  
Admin of Justice 240F  
Admin of Justice 240G  
Admin of Justice 240H  
Admin of Justice 240I  
Admin of Justice 243  
Admin of Justice 243A  
Admin of Justice 243B  
Admin of Justice 243C  
Admin of Justice 243D  
Admin of Justice 243E

Admin of Justice 243F  
Admin of Justice 243G  
Admin of Justice 245  
Admin of Justice 245A  
Admin of Justice 245B  
Admin of Justice 245C  
Admin of Justice 245D

Advanced Officer Course  
Arrest & Control Update  
Training Conference  
Patrol Canine Handler Update  
Introduction to Tactical Dispatcher Course  
Response to Active Shooters Update  
Training Conference - Gang Update  
Training Conference – Active Shooter Update  
Training Conference – Emotional Survival for Officers Update  
Officer Skills Orientation Update  
Pursuit Intervention Technique – PIT Update  
Critical Incident Stress Debrief Update  
De-Escalation Update  
Regular Basic Course Module I  
Adult Corrections Officer Core Course  
Adult Corrections Officer Core Enhancement Course  
PC 832 Laws of Arrest  
PC 832 Firearms  
Reserve Officer – Firearm Update Training  
Reserve Officer – Vehicle Transition Update Training  
Reserve Officer Driver Awareness Issues – Below 100 Update  
Reserve Officer – E.V.O.C. Update Training  
Reserve Officer – C.P.R./A.E.D. Update Training  
Reserve Officer – First Aid Update Training  
Reserve Officer – Electronic & Impact Weapons Update Training  
Reserve Officer – Report Writing Update Training  
Arrest and Control Update  
Tactical Rifle for Law Enforcement  
Firearms Update  
Driver Training – Emergency Vehicle Update  
Bias Based Policing Update Training  
Principled Policing Update  
First Aid for Medical Injuries Update  
CPR/AED Update Training  
First Aid for Traumatic Injuries Update  
Arrest and Control Update for Probation Officers  
Juvenile Institution Orientation Training  
Expandable Baton for Probation Officers  
Pepper Spray Training for Probation Officers  
Basic Use of Force Options for Probation Officers  
Tactical Approaches and Entries for Probation Officers  
Field Tactics Update for Probation Officers  
Offender Behavior Modification  
Academy Instructor Certification Course Update  
Arrest & Control Techniques Update  
Baton User Update  
Canine Agitator  
Detective School

Admin of Justice 245E	Driver Awareness Instructor	Admin of Justice 285	Probation Core Course
Admin of Justice 245F	Driver Awareness Update	Admin of Justice 286	Juvenile Correctional Officer Core
Admin of Justice 245G	Driver Training Instructor	Admin of Justice 290	Firearms Instructor Course
Admin of Justice 245H	PIT Instructor	Admin of Justice 291	Field Training Officer
Admin of Justice 245I	Driver Training/EVOC/PIT Update	Admin of Justice 291A	FTO Update
Admin of Justice 245J	Driver Training Simulator	Admin of Justice 291B	Police Field Training Techniques Update
Admin of Justice 245K	Driving/Force Option Simulators Combo	Admin of Justice 293	Drug Influence—H & S 11550
Admin of Justice 245L	Drug Facilitated Sexual Assault	Admin of Justice 295	Traffic Collision Investigation
Admin of Justice 245M	Electronic Weapons	Auto Tech 281A	Automatic Power Trains I
Admin of Justice 245N	Firearms Instructor Update	Auto Tech 281B	Automatic Power Trains II
Admin of Justice 245O	Arrest & Control Techniques Update	Auto Tech 282A	Suspen/Wheel Align
Admin of Justice 245P	Tactical Rifle Advanced	Auto Tech 282B	Auto Braking Systems
Admin of Justice 245Q	Tactical Rifle Update	Auto Tech 283A	Engine Performance and Diagnosis
Admin of Justice 245R	Tactical Rifle 1st Responder	Auto Tech 283B	Electrical Systems
Admin of Justice 245S	Tactical Shotgun	Auto Tech 284	Auto Air Conditioning
Admin of Justice 245T	Tactical Handgun Advanced	Auto Tech 285	Auto Engines
Admin of Justice 245U	First Aid & CPR Refresher	Auto Tech 292	ASE Cert Preparatory
Admin of Justice 245V	Force Option Simulator	Auto Tech 294	Lamp/Brk Adj Prep
Admin of Justice 245W	Less Lethal Weapons	Biology 222	Biology Skills
Admin of Justice 245X	Mental Illness Awareness Refresher	Computer Info Tech 202	Introduction to Online Learning
Admin of Justice 245Y	Officer Safety/Field Tactics	Counseling 247A	College Study Skills, General Habits
Admin of Justice 245Z	Officer Safety/Field Tactics Update	Counseling 247B	College Study Skills, Academic Skills
Admin of Justice 246	Rifle Marksmanship and Sniper	Counseling 249	Job Preparation
Admin of Justice 246A	Search/Arrest Warrant	Decision Science 221	Support for Finite Mathematics
Admin of Justice 246B	Traffic Collision Investigation Update	Decision Science 223	Support for Business Statistics
Admin of Justice 246C	Use of Force Update	Dental Hygiene 200	Clinical Dental Hygiene IV
Admin of Justice 246D	Perishable Skills Program I	Developmental Services 250	Career Awareness
Admin of Justice 246E	Perishable Skills Program II	Developmental Services 252A	Communication Skills and Strategies 1
Admin of Justice 246F	Rifle Instructor	Developmental Services 252B	Communication Skills and Strategies 2
Admin of Justice 246G	K9 Handler Update	Developmental Services 260	Job Search, Employment Portfolio, and Interview Development
Admin of Justice 246H	MACTAC – Multi Assault, Counter Terrorism Action Capabilities	Developmental Services 262	Group Interaction
Admin of Justice 246I	Basic Bicycle Patrol	Developmental Services 264	Trans to College Stud w/Disabilities
Admin of Justice 246J	Drug/Alcohol Standardized Field Sobriety Tests Update	Developmental Services 272	Consumer Skills
Admin of Justice 246K	Crisis Intervention Training	Developmental Services 273	Independent Living Skills for Students in DSP&S
Admin of Justice 246L	Critical Incident Articulation Update	Developmental Services 275	Horticulture Skills I
Admin of Justice 262	SB 29 Mental Health Awareness for FTOs	Developmental Services 276	Horticulture Skills II
Admin of Justice 269A	Advanced Officer Topics #2	Developmental Services 277	Beginning Computer Literacy
Admin of Justice 270A	Basic Police Academy—Part 1	Developmental Services 278	Basic Word Processing for Work
Admin of Justice 270B	Basic Police Academy—Part 2	Developmental Services 279	Basic Modified Computer Applications
Admin of Justice 271A	PC 832 Laws of Arrest/Arrest & Control	Developmental Services 282	Greenhouse Workforce Prep
Admin of Justice 271B	PC 832 Firearms	Developmental Services 283	Reading Comprehension 1
Admin of Justice 272	Reg Basic Course—Mod Format—Mod III	Developmental Services 284	Reading Comprehension 2
Admin of Justice 273	Reg Basic Course—Mod Format—Mod II	Developmental Services 285	Paragraphs to Essays
Admin of Justice 274	Reg Basic Course—Mod Format—Mod I	Developmental Services 286	Essay Development and College Writing
Admin of Justice 276	POST Basic Supervisor Course	Developmental Services 291	Strategies for Academic Success
Admin of Justice 276A	STC Basic Supervisor Course	Developmental Services 292	Learning Skills and Strategies
Admin of Justice 276B	Supervisor Enhancement Course	EMLS 264LS	Intermediate Listening and Speaking
Admin of Justice 278	Public Safety Dispatcher	EMLS 265R	High Intermediate Academic Reading and Vocabulary
Admin of Justice 279	Citizens' Police Academy	EMLS 265W	High Intermediate Academic Writing and Grammar
Admin of Justice 284	Communications Training Officer		



EMLS 270	Pronunciation Improvement and Accent Reduction	Business & Technology 375A	Introduction to Keyboarding
EMLS 284RW	Intermediate Academic Reading and Writing	Business & Technology 375B	Introduction to Filing
EMLS 285RW	High-Intermediate Academic Reading and Writing	Business & Technology 375C	Basic Office Communications
English 205	Accelerated Reading and Composition Skills	Business & Technology 375D	Math Review and Ten-Key Calculator
English 252	Writing Improvement	Business & Technology 375E	Job Search Documents
Fire Technology 230A	Fire Apparatus Driver Operator 1A	Business & Technology 377	Getting Started with Computers and Workplace Technology
Fire Technology 230B	Fire Apparatus Driver Operator 1B	Business & Technology 379	Intro to Microsoft Office Applications
Fire Technology 230C	Fire Apparatus Driver/Operator – Aerial Apparatus	Counseling 350	College Transition and Success
Fire Technology 230D	Fire Apparatus Driver/Operator – Water Tender	Developmental Services 359	Learning Assessment
Fire Technology 230E	Fire Apparatus Driver/Operator – Wildland Fire Apparatus	EMLS 364LS	Intermediate Listening and Speaking
Fire Technology 233	Advanced Firefighter Continuing Education	EMLS 364R	Intermediate Academic Reading and Vocabulary
Fire Technology 260A	Chief Fire Officer 3A	EMLS 364RA	Intermediate Reading and Vocabulary A
Fire Technology 260B	Chief Fire Officer 3B	EMLS 364RB	Intermediate Reading and Vocabulary B
Fire Technology 260C	Chief Fire Officer 3C	EMLS 364RC	Intermediate Reading and Vocabulary C
Fire Technology 260D	Chief Fire Officer 3D	EMLS 364W	Intermediate Academic Writing and Grammar
Fire Technology 261	EMT 1 Refresher	EMLS 365R	High Intermediate Academic Reading and Vocabulary
Fire Technology 265	I-300, Intermediate ICS	EMLS 370	Pronunciation Improvement and Accent Reduction
Math 201	Elementary Algebra	EMLS 371A	Low-Intermediate Pronunciation Improvement and Accent Reduction
Math 203S	Support for College Algebra	EMLS 371B	High-Intermediate Pronunciation Improvement and Accent Reduction
Math 211S	Support for Statistics	EMLS 371C	Advanced Pronunciation Improvement and Accent Reduction
Math 277	Arithmetic for Learn Disabled	EMLS 372A	Low-Intermediate Academic Grammar
Nursing, Registered 201	NCLEX–RN Review	EMLS 372B	High-Intermediate Academic Grammar
Nursing, Registered 202	Successful Strategies for RN Students	EMLS 372C	Advanced Academic Grammar
Nursing, Registered 204	Intro to the Nursing Profession	EMLS 373A	Low-Intermediate Listening and Speaking
Nursing, Registered 205	Care of the Childbearing and Parenting Family Theory	EMLS 373B	High-Intermediate Listening and Speaking
Nursing, Registered 206	Care of the Childbearing and Parenting Family Simulation	EMLS 373C	Advanced Listening and Speaking
Nursing, Registered 207	Perioperative Nursing	EMLS 384RW	Intermediate Academic Reading and Writing
Special Studies 277	Credit, Nondegree SP ST	EMLS 385RW	High Intermediate Academic Reading and Writing
Theatre Arts 200	Movement for the Production The Little Prince	English 300	Academic Learning & Literacy Skills
		English 326A	Academic Reading Efficiency
<b>B. Noncredit</b>		Graphic Communications 300A	Adobe ACA Certification
Applied Tech 340	Introduction to Machine Shop	Graphic Communications 315	Web Design
Applied Tech 350	Pneumatic & Hydraulic Systems	Graphic Communications 317	Adobe Illustrator
Applied Tech 360	Mechanical Power Drive Systems	Graphic Communications 320A	Intro to Applied Graphics – Adobe Tools
Automotive Technology 373	Fork Lift Safety and Operation	Graphic Communications 320B	Intro to Applied Graphics – Media
Automotive Technology 374	State Laws and Federal Regulations	Graphic Communications 322	Digital Media
Automotive Technology 375	Safe Operation Fundamentals	Graphic Communications 323	Video Editing – Adobe Premiere Pro
Automotive Technology 376	Operations of Commercial Vehicles I	Graphic Communications 324A	Intro to 2-D Animation with Adobe Animate re
Automotive Technology 377	Operations of Commercial Vehicles II	Graphic Communications 327	Digital Video Production
Business Administration 310	Introduction to Business	Graphic Communications 330	Adobe InDesign/Professional Publishing
Business Administration 333	Human Relations in the Workplace	Graphic Communications 331	Intermediate Photoshop
Business Administration 351	Business Planning and New Venture Launch	Graphic Communications 332	Cinematography
Business & Technology 306	Computer Keyboarding	Graphic Communications 334	Introduction to 3-D Animation
Business & Technology 307	Introduction to Word Processing	Graphic Communications 338	Video Post Production
Business & Technology 331	21st Century Workforce Skills	Graphic Communications 339A	Introduction to Graphic Design
Business & Technology 332	Customer Service in the One-Person Office	Graphic Communications 340A	Intermediate Graphic Design
Business & Technology 370A	Office Asst Applications	Graphic Communications 341	Visual Communications
Business & Technology 370B	Office Asst Applications		

Graphic Communications 347	Introduction to Media Appreciation
Graphic Communications 351	Storyboarding
Graphic Communications 353	Adobe After Effects
Heat, Vent, & Air Conditioning 350	RETA/CARO Ready – EPA Section 608 Technician Certification
Heat, Vent, & Air Conditioning 351	RETA/CARO Ready – Industrial Refrigeration
Learning Assistance 360	High School Equivalency Preparation
Marketing 301	Retail Sales and Customer Service Fundamentals
Music 322	Senior Piano Skills
Music 326	Senior Vocal Skills
Music 327	Senior Guitar Skills
Music 339	Senior Opera Workshop
Music 340	Senior Skills Concert Band
Music 341	Senior Jazz Performance Ensemble
Music 342A	Senior Brass Skills
Music 342B	Senior Woodwind Skills
Music 342C	Senior String Skills
Music 342D	Senior Percussion Skills
Music 344	Senior Choral Skills
Music 348	Senior Latin Jazz Skills
Music 375	Senior Community Orchestra
Photography 320	Special Event Photography
ST 300	Tutoring
Special Studies 377	Zero Unit, No Grade Sp St
Theatre Arts 346	Senior Musical Performance Skills
Theatre Arts 347	Senior Musical Theatre Skills
Theatre Arts 348	Senior Play Production
Vocational ESL 380	English for Construction

### Career & Technology Center Courses

Auto Collision Repair 371	Fund of Weld Tech & Working Sheet Metal
Auto Collision Repair 372	Body Work Technology
Auto Collision Repair 373	Automotive Refinishing Technology
Indust Training 371	Warehouse and Distribution Careers
Indust Training 372	Warehouse and Distribution Careers
Maint Mechanic 370	Fund-Weld/Machine Shop
Maint Mechanic 371	Fund Hydraul/Pneumatics
Maint Mechanic 372	Electrical Fundamentals
Manuf Mechanic 351	Introduction to Manufacturing
Manuf Mechanic 352A	Trade Mathematics
Manuf Mechanic 352B	Programmable Controllers
Manuf Mechanic 352C	Job Preparation
Manuf Mechanic 352D	Technical Report Writing
Manuf Mechanic 353A	Fluid Power Fundamentals
Manuf Mechanic 353B	Pneumatic Fundamentals
Manuf Mechanic 353C	Hydraulic Fundamentals
Manuf Mechanic 354A	Power Transmission
Manuf Mechanic 354B	Welding Fundamentals
Manuf Mechanic 354C	Electrical Fundamentals

## SCCCD INTRA-DISTRICT ARTICULATED COURSES

The list of “in-lieu” courses that Clovis Community College, Fresno City College, Reedley College, Madera Community College and Oakhurst Community College Center have agreed to articulate with one another to meet major requirements for an Associate in Arts degree, an Associate in Science degree, or a Certificate of Achievement is available at the Counseling Department.

Note: It is the student’s responsibility to verify with an academic counselor that the “in-lieu” course(s) successfully completed can meet the respective college’s: (a) local general education; (b) CSU GE pattern; (c) IGETC pattern; and/or (d) major requirements for the Associate Degree for Transfer (ADT). Do not ask a friend! Additional resources can be found in the respective college’s catalog and [assist.org](http://assist.org).

## COURSE DESCRIPTIONS

### ACCOUNTING (ACCTG)

#### 4A FINANCIAL ACCOUNTING

**4 units, 4 lecture hours, 1 lab hour**

ADVISORY: Computer Information Technology 12 or 15. A working knowledge of basic arithmetic is recommended.

Explores what financial accounting is, why it is important, and how it is used by investors and creditors to make decisions. Covers the accounting information system and the recording and reporting of business transactions with a focus on the accounting cycle, financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flows, internal controls, and ethics. (C-ID ACCT 110) (A, CSU, UC)

#### 4B MANAGERIAL ACCOUNTING

**4 units, 4 lecture hours, 1 lab hour**

PREREQUISITE: Accounting 4A or equivalent.

Examination of how managers use accounting information in making decisions related to planning, directing, and controlling. Covers cost terms and concepts, cost control, accounting for costs in manufacturing and service organizations, cost behavior, cost structure, cost-volume-profit analysis, profit planning, standard costs, and capital budgeting. (C-ID ACCT 120) (A, CSU, UC)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL****1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to accounting. Collaborative learning objectives established specific to accounting. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**51 INTERMEDIATE ACCOUNTING****3 units, 3 lecture hours, 1 lab hour, (Formerly Accounting 51 and 151)**

PREREQUISITE: Accounting 4A or equivalent.

Preparation and analysis of the Balance Sheet, Income Statement, and Statement of Cash Flows. Examination of accounting theory, conceptual framework underlying financial accounting, time value of money, accounting for current and fixed assets, current and long-term liabilities, and stockholders' equity. (A, CSU)

**52 COST ACCOUNTING****3 units, 3 lecture hours, 1 lab hour, (Formerly Accounting 52 and 152)**

PREREQUISITE: Accounting 4B or equivalent.

Emphasis is given the management functions of planning, organizing, and controlling. In-depth examination of job order, process, and activity based cost systems, standard costs, the master budget, flexible budgeting, and capital budgeting. (A, CSU)

**53 TAX ACCOUNTING****3 units, 3 lecture hours, 1 lab hour, (Formerly Accounting 53 and 153)**

PREREQUISITE: Accounting 4A or equivalent.

Covers federal (not state) individual income taxes including calculation of gross income, exclusions, deductions, losses, credits, and property transactions. Requires students to utilize a computerized tax system to reinforce concepts and methodology presented in the course. (A, CSU)

**54A PRINCIPLES OF AUDITING****3 units, 3 lecture hours**

PREREQUISITE: Accounting 4A or equivalent.

Explores the objectives and the techniques in the verification of business financial statements. Covers the duties, responsibilities, and professional ethics of the auditor, the auditor's report, and analysis of internal controls. (A, CSU)

**56 PAYROLL ACCOUNTING****3 units, 3 lecture hours**

PREREQUISITE: Accounting 4A or equivalent.

Covers payroll accounting including computing gross wages, tax withholdings and net pay, maintaining payroll records, journalizing payroll transactions, and preparing federal tax forms. (A, CSU)

**57 GOVERNMENTAL ACCOUNTING****3 units, 3 lecture hours**

PREREQUISITE: Accounting 4A or equivalent.

An examination of the accounting processes used within municipal county, state, and federal governments. Includes budgetary control, types of funds, and interpretation of reports. (A, CSU)

**61 FORENSIC ACCOUNTING****3 units, 3 lecture hours**

PREREQUISITE: Accounting 4A or equivalent.

The action of identifying, recording, settling, extracting, sorting, reporting, and verifying past financial data or other accounting activities in settling current or prospective legal disputes or using such past financial data in projecting future financial data to settle legal disputes. (A, CSU)

**70 QUICKBOOKS FUNDAMENTALS****3 units, 3 lecture hours, 1 lab hour**

ADVISORY: Accounting 4A. Eligibility for English 1A recommended.

Introduction to accounting procedures and applications using QuickBooks including setting up companies, general ledger, sales processing, accounts receivable, purchasing, accounts payable, bank reconciliation, and payroll. (A, CSU)

**73 SAGE 100 FUNDAMENTALS****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Accounting 4A or equivalent.

Introduction to accounting procedures and applications using Sage 100 software. Curriculum covers creating a new company and performing accounting functions using the general ledger, accounts receivable, accounts payable, payroll, and bank reconciliation modules. (A, CSU)

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**ADMINISTRATION OF JUSTICE (AJ) POLICE  
ACADEMY**


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**204 INSTRUCTOR TRAINING/ACADEMY  
INSTRUCTOR CERTIFICATION COURSE  
1.5 units, 1.55 lecture hours, 0.32 lab hours,  
(Pass/No Pass), (Formerly Administration of  
Justice 104)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Presentation skills and techniques that can be applied in any presentation environment. An overview of learning activities, facilitation of group activities, public speaking, and resources available to enhance presentations. Also, designed to increase the skills of Basic Academy Instructors in delivering POST Learning Domain curricula. Materials fee will be charged.

**211 EXPANDABLE STRAIGHT BATON  
INSTRUCTOR  
0.4 unit, 8.5 lecture hours, 8.5 lab hours,  
(1 week), (Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of, and familiarity regarding officer safety related to police baton use; knowledge of proper and safe tactical movement related to police baton use; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under physical situations; knowledge of proper and safe arrest and control techniques related to police baton; knowledge of, and familiarity with, California Penal codes used in law enforcement use of force pertaining to the police baton; knowledge of effective verbal and non-verbal communication used in law enforcement during arrest procedure related to the police baton; knowledge of, and familiarity with, case law pertinent to law enforcement related to the use of the police baton; ability to perform CPR and First Aid techniques; knowledge of proper documentation in police reports pertaining to the use of the police baton.

Train officers to instruct department personnel in the use of the expandable and straight baton. Materials fee will be charged.

**217 BACKGROUND INVESTIGATION  
1.5 units, 33.6 lecture hours, (1 week),  
(Pass/No Pass), (Formerly Administration  
of Justice 117)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Basic techniques and procedures for background investigators. Materials fee will be charged.

**219 REQUALIFICATION—BASIC COURSE  
6 units, 11.4 lecture hours, 5.4 lab hours,  
(9 weeks), (Pass/No Pass), (Formerly  
Administration of Justice 119)**

PREREQUISITE: A POST Regular Basic Academy Certificate or equivalent or, for out-of-state, a letter of recommendation from POST. No criminal record that disqualifies an individual under 12021 California Penal Code.

Updated information in the use of force, laws of arrest, search and seizure, criminal law, related to the California POST Basic Academy. Materials fee will be charged.

**222 INTERNAL AFFAIRS INVESTIGATOR  
1 unit, 25.2 lecture hours, (1 week),  
(Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

This course requires extensive knowledge of all types of police operations, because an internal investigator will be asked to investigate a wide variety of complaints. The investigator will need to possess deep operational knowledge because in part, he or she will be called upon to make judgments regarding the truthfulness and accuracy of individuals who are interviewed or investigated. Students will also be required to have detailed knowledge of California law, case law, evidence collection, and criminal justice procedures. Knowledge of, and familiarity with, proper use of force during law enforcement operations; knowledge of proper use of verbal and non-verbal communication used in law enforcement contacts with the public; knowledge of, and familiarity with, current case law related to proper law enforcement procedures in daily policing; knowledge of the proper use of police weaponry as it pertains to its use in daily policing; knowledge of local, state and federal law violations pertaining to law enforcement officers working under color of authority.

Ethical issues, legal considerations, investigative tools and procedures concerning public safety internal investigations. Procedures under California Government Code sections 3300 to 3311 and case law. Materials fee will be charged.

**224 INTERVIEW AND INTERROGATION**  
**1 unit, 25.2 lecture hours, (1 week),**  
**(Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of, and familiarity with, California Penal and Vehicle codes use during policing interviews and interrogation to form proper questions related to crime events; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement; knowledge of, and familiarity with, case law pertinent to law enforcement interviewing and interrogation; knowledge of, and familiarity with, the United States Constitution pertaining to citizen's rights pertaining to police related detainments and questioning during law enforcement operations.

Assist patrol officers in interviewing and interrogating persons involved in criminal investigations using behavioral analysis, observation skills, legal aspects, interview preparation, documentation and trial follow-up. Materials fee will be charged.

**225 STANDARDIZED FIELD SOBRIETY TESTS (SFSTS)**

**0.5 unit, 16.8 lecture hours, (1 week),**  
**(Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Develop skills in recognizing, interpreting and administering the Standardized Field Sobriety Tests, write reports, testify in court for cases involving driving under the influence.

**226 ADVANCED ROADSIDE IMPAIRED DRIVING ENFORCEMENT (ARIDE)**

**0.5 unit, 16.8 lecture hours, (1week),**  
**(Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. Must possess a California POST SFST certificate issued by a POST certified presenter. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

ARIDE is required by the National Standardized Field Sobriety Testing Program Standards to enroll in a Drug Recognition Evaluator course, includes information on various drugs and/or alcohol and their effect on humans as it related to violations of federal, state and local laws.

**227 ICI GANG INVESTIGATION COURSE**

**2 units, 2.34 lecture hours, (Pass/No Pass),**  
**(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency. Student must have the legal authority to possess the required law enforcement weaponry involved in this course.

Provides current law enforcement investigators with the information and skills to aid them in the successful investigation of gang related crimes, provide expert testimony, and in the use of informants, prison gangs, and gang subcultures; PC 186.22/Case Law; gang documentation/ file management; interview & interrogation techniques; and the investigative benefit of social networking & technology, development of a personal curricula vitae, writing a search warrant, and building a gang prosecution case.

## **227A ICI MAJOR DRUG INVESTIGATION COURSE**

**1.5 units, 1.5 lecture hours, (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** Administration of Justice 225, 226, and 270B.

A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. **NOTE:** Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

The Robert Presley Investigation (ICI) Major Drug Investigation Course is one of 14 ICI Foundation Specialty Courses within the Robert Presley Institute of Criminal Investigation. This course is designed for peace officers who are currently assigned or will be assigned to investigate major drug investigations. The course covers drug in field training, undercover surveillance, and counter surveillance. Provides qualifications to identify, arrest, and successfully prosecute various major drug violations. This course is designed to enhance the effectiveness of the individual criminal investigators skills in performing the multi-disciplined, multi-leveled tasks necessary to successfully conduct comprehensive major drug investigations. Instruction in this course is provided through a coordinated, experience-based adult learning approach.

## **227B ICI CRIMINAL INVESTIGATOR CORE COURSE**

**2 units, 2.34 lecture hours, (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** Administration of Justice 270B.

This is the core course for the Robert Presley Institute of Criminal Investigation (ICI) and is the prerequisite program for all subsequent ICI specialty courses. The ICI is designed to improve the effectiveness of individual criminal investigators by providing instruction through a coordinated, experience-based adult learning approach which addresses instruction related to crime scene management, working with victims and witnesses, case management and documentation, interviewing and interrogation skills, search and seizure issues, surveillance techniques, case reporting, informant management, search warrant preparation, courtroom testimony, and media relations.

## **227C ICI VEHICLE THEFT COURSE**

**0.5 unit, 2.33 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the

division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. **NOTE:** Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

This ICI foundation specialty course provides investigators with the basic training techniques, skills and information necessary to conduct successful vehicle theft investigations. This course includes instruction on the following types of vehicle theft investigations: vehicle theft by fraud; Vehicle Identification Number (VIN) switched vehicles; salvaged vehicles, and thefts of construction equipment, watercraft, commercial vehicles and motorcycles. This course also provides students with training related to the preparation and execution of search warrants, and vehicle theft investigative resources such as NICB, insurance companies, financial corporations and/or vehicle dealerships. At the conclusion of this course the student/investigator will be able to: interpret and apply vehicle theft related laws; understand the role and responsibilities of the vehicle theft investigator; determine if a vehicle has been VIN switched; determine if a vehicle has been stolen; utilize appropriate investigative resources to assist in vehicle theft investigations; obtain the identification of a vehicle with the VIN removed; and successfully prepare for and assist in the prosecution of cases involving vehicle theft.

## **227D ICI ADVANCED GANG INVESTIGATIONS**

**0.5 unit, 2.33 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. **NOTE:** Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Provides investigators with the information and skills to successfully investigate gang related crimes and testify as a gang expert. The course is designed for active, hands-on participation by all students. Course work will include preparation for submitting a gang wiretap affidavit, understanding gang association warrants, a review of both prosecution and defense strategies in gang cases, and preparing for expert testimony. The course will conclude with a mock-courtroom exercise, administered by gang District Attorneys. The student will have an opportunity to practice their gang expert testimony skills with both direct and cross examination.

**233 AR-15 ARMORER COURSE****0.4 unit, 1.4 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; knowledge of, and familiarity with, the everyday use, vehicle racking, storage environments, and handling of the patrol rifle; ability to achieve a qualifying score during AR-15 shooting to ensure scoping of a rifle; knowledge of, and familiarity with, the nomenclature of a common patrol rifle used in policing; the ability to manipulate small tools during assemble and disassemble of the patrol rifle; knowledge of proper and safe tactical movement while carrying a AR-15 patrol rifle; knowledge of, and familiarity with, case law pertinent to law enforcement patrol rifles and legal adjustments; ability to perform CPR and First Aid techniques.

Knowledge, skill, and abilities to perform disassemble, assemble, inspection, repair, installation of parts, safety check, use proper tools, function check the AR-15/M-16 patrol rifle.

**233A TACTICAL FIREARMS (PSP)****0.1 unit, 0.58 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; due to transition drills satisfy PC 33220(b); ability to achieve a qualifying score during handgun shooting; ability to achieve a qualifying score during

shotgun training; knowledge of, and familiarity with, sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of, and familiarity with, the use of force continuum related to policing; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling while transitioning weapons; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Knowledge of tactical handgun, shotgun and rifle proficiency with techniques, exercise, and course-of-fire focusing on, weapons safety, drawing techniques, shooting fundamentals, target identification, speed, accuracy and effectiveness under stress, movement conditions, transitioning and clearing malfunctions.

**233B FIREARMS – TACTICAL RIFLE****0.3-0.4 unit, 0.93-1.4 lab hours, (Pass/No  
Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during AR-15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of, and familiarity with, California Penal codes used in law enforcement pertaining to use of force; knowledge of case law pertaining to use of force in policing; knowledge of, and familiarity with, use of force continuum and weapon selection used in policing; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Designed to satisfy Penal Code 33220(b) requirements by the State of California for law enforcement officers to carry and use a patrol rifle.

### 233C CIVIL PROCEDURES FOR LAW ENFORCEMENT OFFICERS

**0.1 unit, 0.47 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of, and familiarity with, California Penal codes used in law enforcement pertaining to enforcement of court orders, property levy and till taps; knowledge of, and familiarity with, community policing and problem-solving pertaining to civil disputes; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement; knowledge of, and familiarity with, case law pertinent to law enforcement in the civil process; ability to read court orders pertaining to policing; knowledge of, and familiarity with, officer safety techniques used in disturbance calls; knowledge of the NCIC system related to pre-investigation of action plans prepared by law enforcement.

Enforcement of civil procedures common to Law Enforcement, such as, landlord tenant disputes, till taps, property levees, evictions, restraining orders, and repossessions.

### 233D CALGANG END USER TRAINING

**0.3 unit, 0.93 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Students will need to possess deep operational knowledge of gang investigation in policing. Students will also be required to have detailed knowledge of California law, case law, evidence collection, and criminal justice procedures in policing. Knowledge of, and familiarity with, current case law related to gangs; knowledge of report writing pertaining to policing; knowledge of chain of custody and evidence processing pertaining to policing; knowledge of basic computer skills; possession of a NCIC clearance pertaining to police investigations.

Introduces students to the Cal Gangs computer system, data entry, data queries, link analysis, mapping and related issues.

### 233E POLICE TRAINING OFFICER (PTO)

**1 unit, 10 lecture hours, 32 lab hours, (1 week), (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police operations, because as first line police training officer you must have a wide variety of law enforcement daily operations. The first line training officer will need to possess deep operational knowledge because in part, he or she will be called upon to make judgments regarding the in-field training of police officers. Students will also be required to have detailed knowledge of California law, case law, evidence collection, and criminal justice procedures. Knowledge of, and familiarity with, proper use of force during law enforcement operations; knowledge, and familiarity with, Penal and Vehicle codes; knowledge, and familiarity with, Health & Safety codes; knowledge of proper use of verbal and non-verbal communication used in law enforcement contacts with the public; knowledge of, and familiarity with, current case law related to proper law enforcement procedures in daily policing; knowledge of the proper use of police weaponry as it pertains to its use in daily policing; knowledge of the rank structure in policing; knowledge, and familiarity of, local, state, and federal laws, and policies, pertaining to law enforcement.

Meets POST requirements for the training of Patrol Training Officers. Topics include PTO program goals, objectives, role of PTO, expectations of the PTO, adult learning, coaching and training methods.



**233F WILDERNESS TRACKING**

**0.3 unit, 20.8 lab hours, (1 week),  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Possession of a valid California Driver's License; Knowledge of, and familiarity with, the Incident Command System used by public safety; Knowledge of GPS handheld devices; experience with survival techniques and equipment used in woodland and mountainous terrain; Knowledge of, and familiarity with, backpacking equipment used in mountainous terrain; Knowledge of, and familiarity with public safety radio use; currently certified to perform CPR and First Aid; Knowledge of, and familiarity with, officer safety techniques pertaining to contacting wanted suspect hiding in the wilderness.

Train students involved in active search and rescue or wanted suspects, in techniques of person tracking in mountainous terrain, both day and night operational tracking.

**233G ELECTRONIC WEAPONS**

**0.1 unit, 6.2 lab hours, (1 week),  
(Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of range safety guidelines associated with non-lethal weapons; knowledge of Penal code sections related to use of force in policing; knowledge of emotional response during an arrest process; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers during arrest of resistive subject situations; knowledge of proper and safe arrest and control techniques; knowledge of, and familiarity with, the use of force continuum pertaining to policing; knowledge and ability to use handcuffing commonly used in policing; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement; knowledge of, and familiarity with, case law pertinent to law enforcement use of non-lethal weapons; knowledge of report writing related to police use of force reports; ability to perform CPR and First Aid techniques.

Training in use of conducted energy weapons including TASER X26E, X26P and effects of electricity on biological systems, central nervous system and case law regarding the use of electronic weapons.

**233H DRIVING (PSP)**

**0.1 unit, 0.06 lecture hours, 0.41 lab hours,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Possession of a valid California Driver's License; knowledge of, and familiarity with sustained physical performance demands and stress on law enforcement officers under emergency driving situations; knowledge of, and familiarity with, California Vehicle codes used in law enforcement emergency driving, knowledge of effective radio communication used in law enforcement pursuit driving; knowledge of, and experience driving a law enforcement emergency vehicle; knowledge of how perception and reaction time affects a vehicle's total stopping distance; knowledge of, and familiarity with, the importance and proper use of safety belts in a law enforcement vehicle; knowledge of Fresh and Stale lights at intersections; knowledge of a space cushion surrounding a vehicle; knowledge of the components of a vehicle inspection; knowledge of and familiarity with, the use of code 3 light and siren equipment commonly used in law enforcement; knowledge of, and familiarity with, case law pertinent to law enforcement emergency driving; ability to perform CPR and First Aid techniques.

Meets the 4-hour PSP requirements for patrol vehicle operations, course will consist of both slow speed exercises and pursuit training.

**233I COURT & TEMPORARY HOLDING FACILITY**  
**0.1 unit, 0.46 lab hours, (Pass/No Pass),**  
**(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate, or California Standards of Training for Corrections Basic Course, completion of a POST PC 832 course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of the Penal code, Vehicle code, Health & Safety codes related to the degrees of crime related to an inmate in a detention facilities; knowledge of officer safety techniques related to the movement of arrestees in confined areas; knowledge of case laws related to the housing of juvenile vs. adults in detention facilities; knowledge of courtroom procedures related to inmate movements within a courthouse; knowledge of First Aid procedures related to non-handgun suicides.

Meets requirements of Section 1024, Title 5, California Code of Regulations for training personnel responsible for supervision of inmates in, and supervisors of, a court holding or temporary holding facility regarding jail standards, jail operations, liability, inmate segregation, suicide prevention, emergency procedures and planning.

**233J ADVANCED OFFICER COURSE**

**0.1 unit, 0.06 lecture hours, 0.24 lab hours,**  
**(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of blood borne pathogens as they pertain to law enforcement services; Certified to carry and deploy a law enforcement TASER; ability to perform CPR and First Aid techniques; knowledge of, and experience with, law enforcement suspect containment during criminal in-progress crimes; knowledge of, and familiarly with, proper and safe tactical movement pertaining to policing; knowledge of, and experience with, law enforcement mindset during policing operations; Knowledge of, and experience with, proper police driving techniques. 5-hour course, updated instruction on officer mindset, perimeters, yearly updates for electronic weapons and California OSHA blood borne pathogens.

**233K ARREST & CONTROL UPDATE**

**0.1 unit, 0.06 lecture hours, 0.24 lab hours,**  
**(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of, and familiarity regarding officer safety related to resistive subjects; knowledge of, and familiarity with, control holds and takedowns used in policing; knowledge of, and familiarity with, the principals of Awareness, Balance and Control pertaining to policing; knowledge of, and familiarity with, cursory search and full arrest searches in policing; knowledge of body parts as personal weapons acceptable to policing; knowledge of, and familiarity with common concealed weapons on subjects pertinent to policing; knowledge of Penal code sections related to use of force in policing; knowledge of emotional response during an arrest process; knowledge of proper and safe firearms retentions; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and disaster situations; knowledge of proper and safe arrest and control techniques; knowledge of, and familiarity with, the use of force continuum pertaining to policing; knowledge and ability to use handcuffing commonly used in policing; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement; knowledge of, and familiarity with, case law pertinent to law enforcement; knowledge of report writing related to police use of force reports; ability to perform CPR and First Aid techniques.

5.2 hour course meets POST PSP requirements for arrest and control technique update for California law enforcement officers.

**233L TRAINING CONFERENCE**

**0.1-0.3 unit, 8.4-16.8 lab hours, (1 week),  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police operations, due to the large umbrella of liability covering a wide variety of law enforcement daily operations. The student will need to possess deep operational knowledge because in part, he or she will be called upon to make judgements regarding the involvement of police operations. Students will also be required to have detailed knowledge of California law, case law, evidence collection, and criminal justice procedures. Knowledge of, and familiarity with, proper use of force during law enforcement operations; knowledge of proper use of verbal and non-verbal communication used in law enforcement contacts with the public; knowledge of, and familiarity with, current case law related to proper law enforcement procedures in daily policing; knowledge of the proper use of police weaponry as it pertains to its use in daily policing; Knowledge of the rank structure in policing; knowledge, and familiarity of, local, state, and federal laws, and policies, pertaining to law enforcement.

8-16 hour course provides an overview of managing risk in the high-risk world of law enforcement operations, focusing on civil liability, training, leadership and updated case studies.

**233M PATROL CANINE HANDLER UPDATE**

**0.5 unit, 1.8-2.23 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. Certified law enforcement canine handler. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Course contains legal updates, safety concerns, obedience training, canine personalities, handling techniques, search techniques, environmental concerns, person apprehensions, first aid, and documentation for handlers of patrol canines.

**233N SEARCH AND RESCUE TRAINING UPDATE**

**0.5 unit, 1.78-2.34 lab hours,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Law Enforcement search and rescue techniques, rope training, rescue equipment, patient packaging, navigation, tracking, survival skills and field operations.

**233O UNDERWATER SEARCH AND RECOVERY UPDATE**

**0.5 unit, 1.8-2.23 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. Students must be advanced law enforcement certified SCUBA divers. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Underwater search and recovery techniques for SCUBA diving in poor conditions, search and navigating underwater, and utilizing a helicopter during a search.

**233P SEARCH & RESCUE INCLEMENT WEATHER UPDATE**

**0.5 unit, 1.8-2.23 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Law Enforcement search and rescue techniques for rescue of persons in swift water environments, snow, inclement weather, various terrains and interaction with helicopter or air support.

**233Q INTRODUCTION TO TACTICAL DISPATCHER COURSE****0.4 unit, 1.4 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 278 and 284.

Enhance existing public safety dispatcher skills of a seasoned dispatcher to provide advanced dispatching communication knowledge to assist patrol/SWAT officers during high priority critical incidents.

**233R RESPONSE TO ACTIVE SHOOTERS UPDATE****0.1 unit, 0.58 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Review and update law enforcement responses to active shooter situations that call for single/multiple officer teams, utilizing proper weapon handling, proper room entry techniques, and single/multiple threat assessments and threat contacts.

**233S TRAINING CONFERENCE – GANG UPDATE****0.1-0.3 unit, 0.47-0.97 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Review and update law enforcement responses to current gangs, gang internal workings, criminal actions, case follow-up and officer safety concerns updating law enforcement officers and investigators.

**233T TRAINING CONFERENCE – ACTIVE SHOOTER UPDATE****0.1-0.3 unit, 0.47-0.93 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Techniques and tactics for law enforcement officers to engage active shooters in various situations in order to reduce injuries or deaths in active shooting incidents.

**233U TRAINING CONFERENCE – EMOTIONAL SURVIVAL FOR OFFICERS UPDATE****0.1-0.3 unit, 0.47-0.93 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Review and update how current law enforcement officers cope with stress, physical and emotional challenges.

**233V OFFICER SKILLS ORIENTATION UPDATE****0.1 unit, 0.58 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Review and update case law, policies, firearms, chemical weapons, and less-than-lethal weapons, common to officers entering the patrol environment.

**233W PURSUIT INTERVENTION TECHNIQUE – PIT UPDATE****0.1 unit, 0.06 lecture hour, 0.24 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Train officers in legal guidelines, recognize when to use PIT technique, and properly initiate the PIT maneuver using a properly equipped law enforcement vehicle to immobilize a suspect vehicle.

**233X CRITICAL INCIDENT STRESS DEBRIEF UPDATE****0.3 unit, 0.92 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Identify, understand, practice the importance of incident assessment, strategic intervention planning, related to the practice of Critical Incident Stress Management (CISM) in law enforcement.

**233Y DE-ESCALATION UPDATE****0.1 unit, 0.58 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Refresh and updated legislation related to California's Necessary Force laws related to use of force. Provide officers with ability to utilize verbal tactical approaches to high stress incidents encountered in law enforcement.

**233Z REGULAR BASIC COURSE MODULE I****7 units, 22.23 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 273. Current (within the last 3 years) in PC 832 Arrest and Firearms training requirements. Passage of the POST - Constructed Comprehensive Module II End-of-Course Proficiency Test within the preceding 12 months. Successful completion of the POST Standardized Reading Comprehension and Writing Skills Test and the POST Physical Agility Test. Proof of Department of Justice criminal history clearance to possess a firearm (PC 13511.5). Physical exam, including an electrocardiogram (EKG) printout. Or, be sponsored by a law enforcement agency. Valid Class C California Drivers License.

Satisfies training requirements mandatory for every full-time peace officer under Penal Code section 830.6(a)(1) and 832.6(a)(1). Completion of all three modules satisfies the Regular Basic Course training requirement.

**234 ADULT CORRECTIONS OFFICER CORE COURSE****6 units, 4.5 lecture hours, 5.77 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Review and update case law, policies, firearms, chemical weapons, and less-than-lethal weapons, common to officers entering the patrol environment.

**234A ADULT CORRECTIONS OFFICER CORE ENHANCEMENT COURSE****1 unit, 0.44 lecture hour, 1.9 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 234. Successful completion of Administration of Justice 234 when taken in tandem without a separation between courses (Administration of Justice 234 and Administration of Justice 234A).

This course is designed as an enhancement to the 176 hour Adult Corrections Core. The course provides training in the following subjects: CPR and First-aid, Chemical Agents, PREA, Carotid Restraint, PepperBall, Excited Delirium, and ADA Issues.

**234B PC 832 LAWS OF ARREST**

**1.5 units, 1.14 lecture hours, 1.2 lab hours,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: None.

Basics in arrest and control techniques and knowledge of California laws related to the requirements of Section 832 (Level III) of the California Penal Code.

**234C PC 832 FIREARMS**

**0.4 unit, 1.4 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course.

Basic use of firearms to fulfill the requirements of section 832 of the California Penal Code.

**235 RESERVE OFFICER – FIREARM UPDATE TRAINING**

**0.1 unit, 0.06 lecture hour, 0.18-0.28  
lab hour, (Pass/No Pass), (Open Entry/Open  
Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Updates firearms skills related to reserve peace officers working with full-time officers, designed for working reserve officers qualified to carry law enforcement firearms.

**235A RESERVE OFFICER – VEHICLE TRANSITION UPDATE TRAINING**

**0.1 unit, 0.06 lecture hour, 0.18-0.28 lab  
hour, (Pass/No Pass), (Open Entry/Open  
Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Identifies the various vehicle handling/driving differences from standard Ford sedans to All-wheel drive Explorers used in law enforcement vehicles, handling and equipment placement issues.

**235B RESERVE OFFICER DRIVER AWARENESS ISSUES – BELOW 100 UPDATE**

**0.1 unit, 0.06 lecture hour, 0.18-0.28 lab  
hour, (Pass/No Pass), (Open Entry/Open  
Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Review common driving issues encounter by patrol officers that cause accidents, injuries, deaths and review positive driving practices to reduce officer driving death.

**235C RESERVE OFFICER – E.V.O.C. UPDATE TRAINING**

**0.1 unit, 0.06 lecture hour, 0.18-0.28 lab  
hour, (Pass/No Pass), (Open Entry/Open  
Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Provide instruction on the proper driving techniques to maneuver a vehicle at both slow speeds and high speeds. Allowing students to get first-hand experience at driving at slow speed and high speed under different circumstances and having to utilize the radio and stay aware of other vehicles on the roadway.

**235D RESERVE OFFICER – C.P.R./A.E.D. UPDATE TRAINING**

**0.1 unit, 0.06 lecture hour, 0.18-0.34 lab  
hour, (Pass/No Pass), (Open Entry/Open  
Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Provides updated information or techniques necessary to perform C.P.R. and A.E.D. during medical emergencies in the field for reserve officers.

**235E RESERVE OFFICER – FIRST AID  
UPDATE TRAINING****0.1 unit, 0.06 lecture hour, 0.18-0.28 lab  
hour, (Pass/No Pass), (Open Entry/Open  
Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Provide working reserve officers updated information and techniques common to infield injuries encountered by public safety.

**235F RESERVE OFFICER – ELECTRONIC &  
IMPACT WEAPONS UPDATE TRAINING****0.1 unit, 0.06 lecture hour, 0.18-0.28 lab  
hour, (Pass/No Pass), (Open Entry/Open  
Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Techniques for the proper use of expandable batons and electronic weapons, as well as legal update information for those weapons used by public safety.

**235G RESERVE OFFICER – REPORT WRITING  
UPDATE TRAINING****0.1 unit, 0.06 lecture hour, 0.18-0.28 lab  
hour, (Pass/No Pass), (Open Entry/Open  
Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Information on writing skills associated with the documentation of public safety incidents, proper sentence structure, writing styles, formatting and required information for prosecution of incidents or crimes.

**240 ARREST AND CONTROL UPDATE****0.1 unit, 0.06 lecture hour, 0.18 lab hour,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Arrest and control techniques update required by POST for current law enforcement officers who fall within the POST mandated perishable skills requirements.

**240A TACTICAL RIFLE FOR LAW ENFORCEMENT  
0.3 unit, 0.93 lab hour, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency. Student must have the legal authority to possess the required law enforcement weaponry involved in this course.

Designed to train public safety officer who can possess law enforcement specialty rifles, rifle safety, malfunction drills, basic tactic for deployment of rifles within the scope of the public safety environment. Meets requirement of Penal Code 33220(b) and POST regulation 1081.

**240B FIREARMS UPDATE****0.1 unit, 0.06 lecture hour, 0.18 lab hour,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency. Student must have the legal authority to possess the required law enforcement weaponry involved in this course.

Update training for public safety officers who carry sidearm, transition training, judgement, shooting techniques, building upon current knowledge and training.

**240D DRIVER TRAINING – EMERGENCY VEHICLE UPDATE****0.1 unit, 0.36 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency. Student must have the legal authority to possess the required law enforcement weaponry involved in this course. Student must possess a valid California Driver's License.

Provides minimum topics for driver training/awareness required by POST perishable skills program, pursuit intervention, legal issues, and vehicle dynamics. Course is building on possessed past experience and training in driving a police vehicle.

**240E BIAS BASED POLICING UPDATE TRAINING****0.1 unit, 0.06 lecture hour, 0.18 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Review and update of bias based policing and racial profiling issues related to Law Enforcement.

**240F PRINCIPLED POLICING UPDATE****0.1 unit, 0.47 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Principled policing teaches policing approaches to law enforcement officers that emphasize respect, listening, neutrality and trust while also addressing the common implicit biases that can be barriers to this approach.

**240G FIRST AID FOR MEDICAL INJURIES UPDATE****0.1 unit, 0.06 lecture hour, 0.18 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Identify medical emergencies including childbirth, and provide basic life support skills and treatment.

**240H CPR/AED UPDATE TRAINING****0.1 unit, 0.06 lecture hour, 0.18 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Identify sudden cardiac arrest and demonstrate proper CPR and use of the Automatic External Defibrillator.

**240I FIRST AID FOR TRAUMATIC INJURIES UPDATE****0.1 unit, 0.06 lecture hour, 0.18 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Identify priorities in patient assessment and treatment of traumatic injuries confronted by law enforcement field officers.



**243 ARREST AND CONTROL UPDATE FOR PROBATION OFFICERS**

**0.1 unit, 0.47 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Standards and Training for Corrections Probation Officer CORE course certificate issued from an accredited training provider, or equivalent as determined by the division dean or their appointee. These skills and knowledge base are related to adopted STC and/or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Arrest and control techniques directed toward probation officers working in the field and within detention facilities.

**243A JUVENILE INSTITUTION ORIENTATION TRAINING**

**0.5 unit, 1.8 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 286.

Orientation skills essential for newly hired Juvenile Correctional Officers to meet performance standards and to obtain benefits from subsequent on-the-job training.

**243B EXPANDABLE BATON UPDATE FOR PROBATION OFFICERS**

**0.1 unit, 0.46 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 285. Prior to beginning this course, students must already be familiar with the nomenclature, control holds, take downs, strikes, patterns of movement, and the California Penal Codes used in law enforcement pertaining to the expandable baton.

Expandable baton techniques directed toward probation officers working in the field.

**243C PEPPER SPRAY TRAINING FOR PROBATION OFFICERS**

**0.1 unit, 0.46 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 285 and 286.

Pepper spray deployments and decontamination for probation officers working in the field, and juvenile correctional officers working in a juvenile institution.

**243D BASIC USE OF FORCE OPTIONS FOR PROBATION OFFICERS**

**0.1 unit, 0.46 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 285 and 286.

Force options training for probation officers and juvenile correc-

tional officers. Understanding of case law, arrest and control techniques, pepper spray, restraints, and restraint techniques.

**243E TACTICAL APPROACHES AND ENTRIES FOR PROBATION OFFICERS**

**0.3 unit, 0.93 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 285. Legal understanding of use of force and experience handling a law enforcement firearm. Carries a firearm as part of issued equipment.

Tactical approaches and entries into a residence or building, clearing rooms and addressing potential threats. Simunitions equipment is utilized for probation officers working in the field in this training.

**243F FIELD TACTICS UPDATE FOR PROBATION OFFICERS**

**0.1 unit, 0.46 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 285. Experience handling and shooting a law enforcement firearm. Carries a firearm as part of issued equipment.

Field tactics update for probation officers conducting probation checks on probationers. Simunitions equipment is utilized for approach and entry scenario training.

**243G OFFENDER BEHAVIOR MODIFICATION**

**0.4 unit, 1.4 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 285 and 286. Working in a probation assignment that supervises high-risk felony offenders.

The three components of Cognitive Self-Change, Social Skills, and Problem Solving are the nexus to Thinking for a Change offender behavior modification. Directed toward officers working in a juvenile detention facility or probation officers in the field.

**245 ACADEMY INSTRUCTOR CERTIFICATION COURSE UPDATE**

**0.1 unit, 8.4 lab hours, (1 week), (Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Dispatcher Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Updated teaching techniques related to teaching in the Basic Regular Course (Police Academy) that satisfies the POST PAM Section 1070 requirements.

**245A ARREST & CONTROL TECHNIQUES****UPDATE**

**0.1 unit, 0.06 lecture hours, 0.23 lab hours,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of, and familiarity regarding officer safety related to resistive subjects; knowledge of, and familiarity with, control holds and takedowns used in policing; knowledge of, and familiarity with, the principals of Awareness, Balance and Control pertaining to policing; knowledge of, and familiarity with, cursory search and full arrest searches in policing; knowledge of body parts as personal weapons acceptable to policing; knowledge of, and familiarity with common concealed weapons on subjects pertinent to policing; knowledge of Penal code sections related to use of force in policing; knowledge of emotional response during an arrest process; knowledge of proper and safe firearms retentions; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and disaster situations; knowledge of proper and safe arrest and control techniques; knowledge of, and familiarity with, the use of force continuum pertaining to policing; knowledge and ability to use handcuffing commonly used in policing; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement; knowledge of, and familiarity with, case law pertinent to law enforcement; knowledge of report writing related to police use of force reports; ability to perform CPR and First Aid techniques.

Arrest & Control updated techniques to satisfy POST PAM 2-year cycle requirements for sworn law enforcement officers.

**245B BATON USER UPDATE**

**0.1 unit, 0.06 lecture hours, 0.18 lab hours,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of, and familiarity regarding officer safety related to police baton use; knowledge of proper and safe tactical movement related to police baton use; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under physical situations; knowledge of proper and safe arrest and control techniques related to police baton; knowledge of, and familiarity with, California Penal codes used in law enforcement use of force pertaining to the police baton; knowledge of effective verbal and non-verbal communication used in law enforcement during arrest procedure related to the police baton; ; knowledge of, and familiarity with, case law pertinent to law enforcement related to the use of the police baton; ability to perform CPR and First Aid techniques; knowledge of proper documentation in police reports pertaining to the use of the police baton.

Update users of the police straight or expandable baton that have been previously certified to carry a police baton.

**245C CANINE AGITATOR**

**0.1 unit, 8.4 lab hours, (1 Week), (Pass/No  
Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point or advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of law enforcement incidents, crime scenes and emergency environments that police canines are deployed. Students must be experienced in the behaviors of police canine during in the field deployments. A student relies on patrol experiences with knowledge and familiarity with the Penal code, Vehicle code, Health & Safety code, knowledge and familiarity with case law pertaining to canine policing; knowledge and familiarity with collection of evidence; knowledge and familiarity with criminal suspect's rights; be in good physical condition to move quickly, have agilely and strength to endure canine strikes; certified for CPR and First Aid.

Properly read the drive and react to police canines during active training of police dogs in the service of law enforcement, use agitation equipment, understand protection dogs.

**245D DETECTIVE SCHOOL****0.3-0.4 unit, 0.93-1.4 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Dispatcher Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police crime scenes, because as a generalist detective you have a wide variety of investigative responsibilities. A detective relies on their past academy and patrol experience with knowledge and familiarity with the Penal code, Vehicle code, Health & Safety code, knowledge and familiarity with case law pertaining to policing; knowledge and familiarity with collection of evidence; knowledge and familiarity with criminal suspect's rights; knowledge and familiarity with the chain of evidence in policing; knowledge and familiarity with fingerprint identification, impressions, collection procedures pertaining to policing; knowledge and familiarity with legal authority; knowledge and familiarity with generating crime scene notes that document observations, scene conditions and investigative actions pertaining to policing; knowledge and familiarity with systematic methods to search crime scenes pertaining to policing; knowledge and familiarity with crime scene diagramming; knowledge and familiarity with interviewing and interrogation of subjects pertaining to policing; certificate to use NCIC as part of criminal investigations.

Training for new detectives covering, case management, interrogation, interviewing, crime scene, media relations, warrants, evidence and other related subjects.

**245E DRIVER AWARENESS INSTRUCTOR****0.4 unit, 25.2 lab hours, (1 week), (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Possession of a valid California Driver's License; knowledge of, and familiarity with sustained physical performance demands and stress on law enforcement officers under emergency driving situations; knowledge of, and familiarity with, California Vehicle codes used in law enforcement emergency and pursuit driving, knowledge of effective radio communication used in law enforcement pursuit driving; knowledge of, and experience driving a law enforcement emergency vehicle; Knowledge and familiarity with, case law pertinent to law enforcement emergency driving; ability to perform CPR and First Aid techniques.

Satisfies POST PAM 1070 regulation to train law enforcement driving courses, EVOC, high and low speed driving.

**245F DRIVER AWARENESS UPDATE****0.1 unit, 0.06 lecture hours, 0.18 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Possession of a valid California Driver's License; knowledge of, and familiarity with sustained physical performance demands and stress on law enforcement officers under emergency driving situations; knowledge of, and familiarity with, California Vehicle codes used in law enforcement emergency and pursuit driving, knowledge of effective radio communication used in law enforcement pursuit driving; knowledge of, and experience driving a law enforcement emergency vehicle; Knowledge and familiarity with, case law pertinent to law enforcement emergency driving; ability to perform CPR and First Aid techniques.

Satisfies POST PAM Perishable Skills 2-year update requirements, slow speed turning, steering, parking, backing and turn around.

**245G DRIVER TRAINING INSTRUCTOR****0.5 unit, 42 lab hours, (1 week), (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Possession of a valid California Driver's License; knowledge of, and familiarity with sustained physical performance demands and stress on law enforcement officers under emergency driving situations; knowledge of, and familiarity with, California Vehicle codes used in law enforcement emergency and pursuit driving, knowledge of effective radio communication used in law enforcement pursuit driving; knowledge of, and experience driving a law enforcement emergency vehicle; Knowledge and familiarity with, case law pertinent to law enforcement emergency driving; ability to perform CPR and First Aid techniques.

Satisfies POST PAM 1070 requirement for Driver Awareness Instructor, driving simulators, skid pan, code-3, and driving courses.

**245H PIT INSTRUCTOR****0.1 unit, 8.4 lab hours, (1 week), (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Possession of a valid California Driver's License; knowledge of, and familiarity with sustained physical performance demands and stress on law enforcement officers under emergency driving situations; knowledge of, and familiarity with, California Vehicle codes used in law enforcement emergency and pursuit driving, knowledge of effective radio communication used in law enforcement pursuit driving; knowledge of, and experience driving a law enforcement emergency vehicle; knowledge and familiarity with, case law pertinent to law enforcement emergency driving; ability to perform CPR and First Aid techniques.

Satisfies POST PAM 1070 requirements to teach law enforcement PIT.

**245I DRIVER TRAINING/EVOC/PIT UPDATE****0.1 unit, 0.46 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Possession of a valid California Driver's License; knowledge of, and familiarity with sustained physical performance demands and stress on law enforcement officers under emergency driving situations; knowledge of, and familiarity with, California Vehicle codes used in law enforcement emergency and pursuit driving, knowledge of effective radio communication used in law enforcement pursuit driving; knowledge of, and experience driving a law enforcement emergency vehicle; knowledge and familiarity with, case law pertinent to law enforcement emergency driving; ability to perform CPR and First Aid techniques.

Satisfies POST PAM requirement for driver's update, legal aspects, implementation of PIT and EVOC.

**245J DRIVER TRAINING SIMULATOR**

**0.1 unit, 0.06 lecture hours, 0.18 lab hours,  
(Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of driving a marked law enforcement vehicle in all types of environmental considerations and response classifications, such as code 3. Possession of a valid California Driver's License; knowledge of, and familiarity with sustained physical performance demands and stress on law enforcement officers under emergency driving situations; knowledge of, and familiarity with, California Vehicle codes used in law enforcement emergency and pursuit driving, knowledge of effective radio communication used in law enforcement pursuit driving; knowledge of, and experience driving a law enforcement emergency vehicle; knowledge and familiarity with case law pertinent to law enforcement emergency driving; knowledge and familiarity with proper steer and braking techniques; knowledge and familiarity with interior patrol vehicle restrictions/limitations while driving such vehicles; knowledge and familiarity with proper radio use and procedures during emergency responses or vehicle pursuits.

Using a law enforcement training simulator, train students in seatbelt, steering, breaking, weight transfer, road position, speed judgment, throttle usage, defensive driving in various scenarios.

**245K DRIVING/FORCE OPTION SIMULATOR**

**0.1 unit, 0.47 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police interactions with resistive subjects during law enforcement contacts, a law enforcement officer has a wide variety of contacts that they by law or policy must respond to, a student must have knowledge of multitasking within short periods of time, knowledge and familiarity with Penal and Health & Safety codes, knowledge and familiarity with safe tactical movement, knowledge and familiarity with verbal and non-verbal communication; knowledge and familiarity with case law pertinent to police use of force; knowledge and familiarity with arrest and control techniques; knowledge and familiarity with use of police handcuffing procedures; knowledge and familiarity with the use of the police baton; knowledge and familiarity with police handguns, shotguns and rifles; knowledge and familiarity with the physical requirements associated with policing; knowledge and familiarity with radio procedures during stressful event in policing; knowledge of and familiarity with case law related to use of force in policing; Possession of a valid California Driver's License; knowledge of, and familiarity with sustained physical performance demands and stress on law enforcement officers under emergency driving situations; knowledge of, and familiarity with, California Vehicle codes used in law enforcement emergency and pursuit driving, knowledge of effective radio communication used in law enforcement pursuit driving; knowledge of, and experience driving a law enforcement emergency vehicle; knowledge and familiarity with case law pertinent to law enforcement emergency driving; knowledge and familiarity with proper steer and braking techniques; knowledge and familiarity with interior patrol vehicle restrictions/limitations while driving such vehicles; knowledge and familiarity with proper radio use and procedures during emergency responses or vehicle pursuits.

Satisfies the POST PAM requirement for updated simulator training in driving and use of force for law enforcement.

**245L DRUG FACILITATED SEXUAL ASSAULT****0.3 unit, 16.8 lab hours, (1 week), (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police crime scenes, because as a generalist patrol officer you have a wide variety of investigative responsibilities. Patrol officers and detectives require an extensive knowledge of investigating sexual assaults incidents. A officer relies on their past academy and patrol experience with knowledge and familiarity with the Penal code, Vehicle code, Health & Safety code, knowledge and familiarity with case law pertaining to policing; knowledge and familiarity with collection of evidence; knowledge and familiarity with criminal suspect's rights; knowledge and familiarity with the chain of evidence in policing; knowledge and familiarity with fingerprint identification, impressions, collection procedures pertaining to policing; knowledge and familiarity with legal authority; knowledge and familiarity with generating crime scene notes that document observations, scene conditions and investigative actions pertaining to policing; knowledge and familiarity with systematic methods to search crime scenes pertaining to policing; knowledge and familiarity with crime scene diagramming; knowledge and familiarity with interviewing and interrogation of subjects pertaining to policing; certificate to use NCIC as part of criminal investigations.

Training for law enforcement patrol officers and detectives related to sexual assaults related to the use of drugs to commit sexual assault, drugs, evidence collection, suspect interview, and related laws.

**245M ELECTRONIC WEAPONS****0.1 unit, 0.06 lecture hours, 0.18 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of range safety guidelines associated with non-lethal weapons; knowledge of Penal code sections related to use of force in policing; knowledge of emotional response during an arrest process; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers during arrest of resistive subject situations; knowledge of proper and safe arrest and control techniques; knowledge of, and familiarity with, the use of force continuum pertaining to policing; knowledge and ability to use handcuffing commonly used in policing; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement; knowledge of, and familiarity with, case law pertinent to law enforcement use of non-lethal weapons; Knowledge of report writing related to police use of force reports; ability to perform CPR and First Aid techniques.

Satisfies the requirement for law enforcement officers to carry a TASER, nomenclature, case law, medical considerations, and deployment.

**245N FIREARMS INSTRUCTOR UPDATE****0.4 unit, 25.2 lab hours, (1 week), (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during hand gun shooting; ability to achieve a qualifying score during shotgun training; ability to achieve a qualifying score during AR 15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling and use of nonlethal weapons; knowledge of, and familiarity with, California Penal codes used in law enforcement; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Updates currently certified POST Firearm Instructors, course contains, psychology of survival for trainers, pistol update, rifle update, shotgun update, adult learning concepts, instructor liability and vehicle tactics.

**2450 TACTICAL HANDGUN**

**0.1 unit, 0.06 lecture hours, 0.25 lab hours,  
(Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during hand gun shooting; ability to achieve a qualifying score during shotgun training; ability to achieve a qualifying score during AR 15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling and use of nonlethal weapons; knowledge of, and familiarity with, California Penal codes used in law enforcement; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Handgun training, marksmanship, loading drills, shooting on the move, multiple targets, threat assessment, barricades, team shooting, shooting from vehicles.

**245P TACTICAL RIFLE ADVANCED**

**0.1 unit, 0.46 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during hand gun shooting; ability to achieve a qualifying score during shotgun training; ability to achieve a qualifying score during AR 15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling and use of nonlethal weapons; knowledge of, and familiarity with, California Penal codes used in law enforcement; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Advanced rifle techniques, shooting drills, multiple targets, weapons safety, shooting positions, sight picture, distance shooting and angles.

**245Q TACTICAL RIFLE UPDATE**

**0.1 unit, 0.47 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during hand gun shooting; ability to achieve a qualifying score during shotgun training; ability to achieve a qualifying score during AR 15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling and use of nonlethal weapons; knowledge of, and familiarity with, California Penal codes used in law enforcement; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Update methods of tactical rifle, weapon safety, sight picture, tactical considerations, sling carry positions, moving target methods and shooting drills.

**245R TACTICAL RIFLE 1ST RESPONDER**

**0.3 unit, 0.93 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during hand gun shooting; ability to achieve a qualifying score during shotgun training; ability to achieve a qualifying score during AR 15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling and use of nonlethal weapons; knowledge of, and familiarity with, California Penal codes used in law enforcement; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

1st Responders tactical rifle training, deployment considerations, threat assessment, barricade shooting, distance shooting, stress shooting, team and tandem shooting.

**245S TACTICAL SHOTGUN**

**0.1 unit, 0.47 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during handgun shooting; ability to achieve a qualifying score during shotgun training; knowledge of, and familiarity with, sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of, and familiarity with, the use of force continuum related to policing; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling while transitioning weapons; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Tactical use of the patrol shotgun, safety, effectiveness, shooting positions, loading/unloading, carry positions, shooting on the move, transitioning drills, multiple targets and shotgun manipulation.

**245T TACTICAL HANDGUN ADVANCED**

**0.1 unit, 0.47 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during handgun shooting; ability to achieve a qualifying score during shotgun training; knowledge of, and familiarity with, sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of, and familiarity with, the use of force continuum related to policing; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling while transitioning weapons; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Advanced handgun, safety, officer survival, combat shooting, mindset, handgun capabilities, multiple targets, multiple targets and distance shooting.



**245U FIRST AID & CPR REFRESHER**

**0.1 unit, 0.47 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. These skills and knowledge base are related to adopted POST and/or industry standards. Students will need to have completed a Law Enforcement First Aid and CPR course to attend this refresher course. **NOTE:** Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Refresh legal issues, responding to emergencies, control bleeding, using an Automated External Defibrillator, basic First Aid and CPR demonstration.

**245V FORCE OPTION SIMULATOR**

**0.1 unit, 0.06 lecture hours, 0.18 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police interactions with resistive subjects during law enforcement contacts, a law enforcement officer has a wide variety of contacts that they by law or policy must respond to, a student must have knowledge of multitasking within short periods of time, knowledge and familiarity with Penal, Vehicle and Health & Safety codes, knowledge and familiarity with safe tactical movement, knowledge and familiarity with verbal and non-verbal communication; knowledge and familiarity with case law pertinent to police use of force; knowledge and familiarity with arrest and control techniques; knowledge and familiarity with use of police handcuffing procedures; knowledge and familiarity with the use of the police baton; knowledge and familiarity with police handguns, shotguns and rifles; knowledge and familiarity with the physical requirements associated with policing; knowledge and familiarity with radio procedures during stressful event in policing; knowledge of and familiarity with case law related to use of force in policing; knowledge and familiarity with verbal communications with resistive subject pertaining to policing; certified to carry lethal and non-lethal weapons in policing.

Simulator environment for patrol officers to improve use of force weaponry, verbalization, decision making during use of force suspect contacts.

**245W LESS LETHAL WEAPONS**

**0.1 unit, 0.06 lecture hours, 0.18 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police interactions with resistive subjects during law enforcement contacts, a law enforcement officer has a wide variety of contacts that they by law or policy must respond to, a student must have knowledge of multitasking within short periods of time, knowledge and familiarity with Penal, Vehicle and Health & Safety codes, knowledge and familiarity with safe tactical movement, knowledge and familiarity with verbal and non-verbal communication; knowledge and familiarity with case law pertinent to police use of force; knowledge and familiarity with arrest and control techniques; knowledge and familiarity with the physical requirements associated with policing; knowledge and familiarity with radio procedures during stressful event in policing; knowledge of and familiarity with case law related to use of force in policing; knowledge and familiarity with verbal communications with resistive subject pertaining to policing; certified to carry lethal and non-lethal weapons in policing.

Patrol and SWAT officer less lethal weapons, related laws, nomenclature, deployment factors, transitioning, ammunition, storage, tactical considerations, storage and documentation.



## **245X MENTAL ILLNESS AWARENESS REFRESHER**

**0.1 unit, 0.06 lecture hours, 0.18 lab hours,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Dispatcher Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police interactions with subjects with mental illnesses during law enforcement contacts, a law enforcement officer has a wide variety of contacts that they by law or policy must respond to, a student must have knowledge of multitasking within short periods of time, knowledge and familiarity with Penal and Health & Safety codes, knowledge and familiarity with safe tactical movement, knowledge and familiarity with verbal and non-verbal tactical communication; knowledge and familiarity with medical response resources related to subjects with mental illnesses.

Contact by law enforcement officers with mental illness conditions, causes, definitions, schizophrenia, Bipolar disorder, treatment approaches and practical exercise.

## **245Y OFFICER SAFETY/FIELD TACTICS**

**0.4 unit, 1.4 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police interactions with resistive subjects during law enforcement contacts, a law enforcement officer has a wide variety of contacts that they by law or policy must respond to, a student must have knowledge of multitasking within short periods of time, knowledge and familiarity with Penal, Vehicle and Health & Safety codes, knowledge and familiarity with safe tactical movement, knowledge and familiarity with verbal and non-verbal communication; knowledge and familiarity with case law pertinent to police use of force; knowledge and familiarity with arrest and control techniques; knowledge and familiarity with the physical requirements associated with policing; knowledge and familiarity with radio procedures during stressful event in policing; knowledge of and familiarity with case law related to use of force in policing; knowledge and familiarity with verbal communications with resistive subject pertaining to policing; certified to carry lethal and non-lethal weapons in policing.

Tactics for patrol officers' officer safety during daily operations, firearms, arrest & control, searching techniques, K-9s, officer down and officer rescue.

## **245Z OFFICER SAFETY/FIELD TACTICS UPDATE**

**0.1 unit, 0.06 lecture hours, 0.18 lab hours,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police interactions with resistive subjects during law enforcement contacts, a law enforcement officer has a wide variety of contacts that they by law or policy must respond to, a student must have knowledge of multitasking within short periods of time, knowledge and familiarity with Penal, Vehicle and Health & Safety codes, knowledge and familiarity with safe tactical movement, knowledge and familiarity with verbal and non-verbal communication; knowledge and familiarity with case law pertinent to police use of force; knowledge and familiarity with arrest and control techniques; knowledge and familiarity with the physical requirements associated with policing; knowledge and familiarity with radio procedures during stressful event in policing; knowledge of and familiarity with case law related to use of force in policing; knowledge and familiarity with verbal communications with resistive subject pertaining to policing; certified to carry lethal and non-lethal weapons in policing.

Updated training for patrol officers on safety, tactics, searches, exterior and interior tactics.

**246 RIFLE MARKSMANSHIP AND SNIPER**  
**0.5 unit, 50 lab hours, (1 week), (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires an extensive knowledge and familiarity with use of for situations during extreme high risk situations in law enforcement sniper required situations. Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during AR 15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling and use of nonlethal weapons; knowledge and familiarity with California Penal codes used in law enforcement pertaining to use of force; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Patrol and SWAT officer rife advanced course, ballistics, zeroing, ammunition, responsibilities, maintenance, moving targets, use of force decision making and shooting drills.

**246A SEARCH/ARREST WARRANT**  
**0.1 unit, 0.47 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of Vehicle codes pertaining to policing; knowledge of persons under the influence of drugs or alcohol related to vehicle collision investigations; knowledge of, and familiarity with, officer safety during Field Sobriety Testing in the field during policing; knowledge of, and familiarity with, courtroom testimony related to policing; knowledge of, and familiarity with, evidence collection pertaining to policing; Knowledge of, and familiarity with, police report writing; knowledge of, and familiarity with, crime scene photography; knowledge of, and familiarity with, vehicle identification numbers located on several location of vehicles; certified for NCIC use.

Warrant deployment, search warrant process, warrant planning, interior tactics, application, and scenarios.

**246B TRAFFIC COLLISION INVESTIGATION**  
**UPDATE**

**0.3 unit, 0.93 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

**PREREQUISITE:** A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of Vehicle codes pertaining to policing; knowledge of persons under the influence of drugs or alcohol related to vehicle collision investigations; knowledge of, and familiarity with, officer safety during Field Sobriety Testing in the field during policing; knowledge of, and familiarity with, courtroom testimony related to policing; knowledge of, and familiarity with, evidence collection pertaining to policing; Knowledge of, and familiarity with, police report writing.

Update to basic traffic collision investigation course, CIM manual, diagramming, data retrieval system, and field exercise.

**246C USE OF FORCE UPDATE**

**0.3 unit, 0.93 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of blood borne pathogens as they pertain to law enforcement services; Certified to carry and deploy a law enforcement TASER; ability to perform CPR and First Aid techniques; knowledge of, and experience with, law enforcement suspect containment during criminal in-progress crimes; knowledge of, and familiarly with, proper and safe tactical movement pertaining to policing; knowledge of, and experience with, law enforcement mindset during policing operations; Knowledge of, and experience with, proper police driving techniques. Update law enforcement officers in electronic weapons, O.C., less lethal shotgun, legal update, baton and force options.

**246D PERISHABLE SKILLS PROGRAM I**

**0.3 unit, 0.93 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean, Academy Director, or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires an extensive knowledge and familiarity with use of for situations during extreme high risk situations in law enforcement sniper required situations. Possession of a valid California Driver's License; Certified to carry a law enforcement tactical rifle under Penal Code section 33220(b). Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during AR 15 shooting; knowledge

of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling and use of nonlethal weapons; knowledge and familiarity with California Penal codes used in law enforcement pertaining to use of force; knowledge of, and experience driving a law enforcement emergency vehicle; knowledge of how perception and reaction time affects a vehicle's total stopping distance; knowledge and familiarity with the importance and proper use of safety belts and tactical removal of safety belts; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Advanced officer update covering, driving skills, CPR & First Aid, blood borne pathogens, tactical communication, body cameras, case law, marksmanship, handgun, shotgun, and arrest & control.

**246E PERISHABLE SKILLS PROGRAM II**

**0.1 unit, 0.47 lab hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of, and familiarity regarding officer safety related to police baton use; knowledge of proper and safe tactical movement related to police crowd control; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under physical situations; knowledge of proper and safe arrest and control techniques related to domestic violence incidents; knowledge of, and familiarity with, California Penal codes used in law enforcement use of force pertaining to crowd control and domestic violence; knowledge of effective verbal and non-verbal communication used in law enforcement during citizen contacts; knowledge of, and familiarity with, case law pertinent to law enforcement related to domestic violence; ability to perform CPR and First Aid techniques; knowledge of proper documentation in police reports pertaining to crowd control and domestic violence; knowledge of and familiarity with community policing and problem solving.

Advanced officer update covering, domestic violence, crowd control, tactical communication and racial profiling.

**246F RIFLE INSTRUCTOR****0.5 unit, 2.34 lab hours, (Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean, Academy Director, or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires an extensive knowledge and familiarity with use of for situations during extreme high risk situations in law enforcement sniper required situations. Certified to carry a law enforcement tactical rifle under Penal Code section 33220(b). Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during AR 15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling and use of nonlethal weapons; knowledge and familiarity with California Penal codes used in law enforcement pertaining to use of force; knowledge of effective verbal communication used in law enforcement; knowledge of effective non-verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Train students in instructing the use of rifles by law enforcement officers using adult learning concepts, weapon systems, range safety, legal aspects, target diagnosis, use of drills, tactical movements and weapons maintenance.

**246G K9 HANDLER UPDATE****0.1-0.4 unit, 8.4-25.2 lab hours, (1 week), (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point or advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of law enforcement incidents, crime scenes and emergency environments that police canines are deployed. Students must be experienced in the behaviors of police canine during in the field deployments. A student relies on patrol experiences with knowledge and familiarity with the Penal code, Vehicle code, Health & Safety code, knowledge and familiarity with case law pertaining to canine policing; knowledge and familiarity with collection of evidence; knowledge and familiarity with criminal suspect's rights; be in good physical condition to move quickly, have agilely and strength to endure canine strikes; certified for CPR and First Aid.

K9 handler skills update for currently certified canine handler working in law enforcement.

**246H MACTAC – MULTI ASSAULT, COUNTER TERRORISM ACTION CAPABILITIES****0.1 unit, 0.47 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Multi-assault, counter terrorism capabilities overview related to the response to terrorism in the United States for local law enforcement.

**246I BASIC BICYCLE PATROL****0.5 units, 1.87 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Familiarizes the sworn law enforcement bike officer patrol riding techniques, use of force concerns, legal procedures, equipment and maintenance.

**246J DRUG/ALCOHOL STANDARDIZED FIELD SOBRIETY TESTS UPDATE****0.1 unit, 0.46 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Provide students with the ability to refresh their knowledge at recognizing and interpreting evidence of DUI violations, administer and interpret standardized field sobriety tests, describe DUI evidence, give verbal testimony and document the incident.

**246K CRISIS INTERVENTION TRAINING****0.5 unit, 2.23 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency. Course meets the minimum topics of SB29 & PC 13515.28(a)(1)

Provides students with increased knowledge about mental health crisis, mental illness, the stigma associated with mental illness, and de-escalation strategies to avoid violent confrontations. Course meets the minimum topics of SB29 & PC 13515.28(a)(1)

**246L CRITICAL INCIDENT ARTICULATION UPDATE****0.3 unit, 0.93 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Provide public safety officers with a comprehensive understanding of case law and statutory law as it relates to use of force incidents. The students will be exposed to scenario based, force on force, training with outcomes ranging anywhere from verbal de-escalation to the application of lethal force. The students will have an understanding of the roles of all entities involved in the critical incident investigation process.

**262 SB 29 MENTAL HEALTH AWARENESS FOR FTOS****0.1 unit, 0.47 lab hour, (Pass/No Pass), (Open Entry/Open Exit)**

ADVISORY: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

8-hour mental health awareness information required for newly assisted Field Training Officers (FTOs) to conform with California Senate Bill 29.

**269A ADVANCED OFFICER TOPICS #2****0.2-4 units, 0.1-2.33 lecture hours, 0.1-2.33 lab hours, (1-18 weeks), (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B or equivalent, or currently employed by a Public Safety Agency.

Satisfies mandatory yearly requirements of the California Commission on Peace Officer Standards and Training (POST) or Standards for Training in Corrections (STC) for advanced officer training. May be offered in seminar, lecture, and/or laboratory format. Examination of topics, current trends, and/or issues as mandated by POST or STC and not covered by regular catalog offerings. Course content to be determined by POST or STC. The format of delivery will vary. No class will be presented in less than four hours of subject matter, or more than 84 hours of subject matter. These courses may be presented within one week or 18 weeks with variables between those two time limits. The variable format is provided due to public safety officers' demanding schedules and the officer's limited flexing times available to train.

**270A BASIC POLICE ACADEMY – PART 1****17.5 units, 12.3 lecture hours, 10.75 lab hours, (20 weeks)**

PREREQUISITE: Successful completion of post: (1) POST Standardized Reading Comprehension and Writing Skills Test; (2) POST Physical Agility Test; and (3) Physical Exam. Possess a valid Class C California Driver's License. Proof of a Department of Justice criminal history clearance to possess a firearm (PC13511.5), or be sponsored by a law enforcement agency.

Satisfies the requirement of the California Commission of Peace Officer Standards and Training (POST) for Basic Police Academy training mandatory for every full-time peace officer under Penal Code Section 830.1. Must be taken in tandem without a time separation between courses (Administration of Justice 270A and Administration of Justice 270B). Materials, range, driving, health, and parking fees will be charged.

**270B BASIC POLICE ACADEMY – PART 2**

**20.5 units, 11.2 lecture hours,  
12.93 lab hours, (24 weeks)**

PREREQUISITE: Successful completion of Administration of Justice 270A when taken in tandem without a time separation between courses (Administration of Justice 270A and Administration of Justice 270B).

(1) POST Standardized Reading Comprehension and Writing Skills Test; (2) POST Physical Agility Test; and (3) Physical Exam. Possess a valid Class C California Driver's License. Proof of a Department of Justice criminal history clearance to possess a firearm (PC13511.5), or be sponsored by a law enforcement agency.

Satisfies the requirement of the California Commission of Peace Officer Standards and Training (POST) for Basic Police Academy training mandatory for every full-time peace officer under Penal Code, Section 830.1. Health, parking and range fees will be charged.

**271A PC 832 LAWS OF ARREST/ARREST & CONTROL**

**2 units, 42 lecture hours, 10.5 lab hours,  
(1 week), (Pass/No Pass)**

PREREQUISITE: Demonstration of physical ability to perform arrest and control techniques in a safe manner.

Basics in arrest and control techniques and knowledge of California laws related to the requirements of Section 832 (Level III) of the California Penal Code.

**271B PC 832 FIREARMS**

**0.5 unit, 4.2 lecture hours, 21 lab hours,  
(1 week), (Pass/No Pass)**

PREREQUISITE: Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course.

Basic use of firearms to fulfill the requirements of Section 832 of the California Penal Code. Materials and range fee will be charged.

**272 REGULAR BASIC COURSE – MODULAR FORMAT – MODULE III**

**10 units, 9 lecture hours, 3.4 lab hours**

PREREQUISITE: Valid Class C California Driver's License. Proof of a Department of Justice criminal history clearance to possess a firearm (PC 13511.5) or be sponsored by a law enforcement agency.

Satisfies mandatory training requirements for Level III Reserve Peace Officer and is the mandatory prerequisite for the Administration of Justice 273 (Level II module). Must provide a handgun, ammo, and safety equipment associated with a firearms course.

**273 REGULAR BASIC COURSE – MODULAR FORMAT – MODULE II**

**13 units, 11.1 lecture hours, 6.1 lab hours**

PREREQUISITE: Successful completion of Administration of Justice 272 (Module III). Current (within the last 3 years) in PC 832, Arrest and Firearms, training requirements. Proof of a Department of Justice criminal history clearance to possess a firearm (PC 13511.5). Passage of the POST – Constructed Comprehensive Module III End-of-Course Proficiency Test within the preceding 12 months.

Satisfies mandatory requirements for Level II Reserve Peace Officer and is the mandatory prerequisite for Administration of Justice 274 (Level I module).

**274 REGULAR BASIC COURSE – MODULAR FORMAT – MODULE I**

**25.5 units, 18 lecture hours, 8.7 lab hours,  
(22 weeks)**

PREREQUISITE: Successful completion of Administration of Justice 272 and 273. Current (within last 3 years) in PC 832, Arrest and Firearms, training requirements. Passage of the POST Constructed Comprehensive Module II End-of-Course Proficiency Test within the preceding 12 months. Successful completion of the POST Standardized Reading Comprehension and Writing Skills Test and the POST Physical Agility Test. Proof of Department of Justice criminal history clearance to possess a firearm (PC 13511.5) Physical exam, including an electrocardiogram (EKG) printout. Or, be sponsored by a law enforcement agency. Valid Class C California Driver's License.

Satisfies training requirements mandatory for every full-time peace officer under Penal Code section 30.6(a)(1) and 832.6(a)(1). Completion of all three modules satisfies the Regular Basic Course training requirement.

**276 POST BASIC SUPERVISOR**

**4.5 units, 42 lecture hours, (2 weeks),  
(Pass/No Pass), (Formerly Administration of  
Justice 73 and 76)**

PREREQUISITE: POST training curriculum for the newly promoted law enforcement supervisor. Role identification, leadership styles, values, ethics, and principles, assertive leadership, etc. Materials fee will be charged.

POST training curriculum for the newly promoted law enforcement supervisor. Role identification, leadership styles, values, ethics and principles, assertive leadership, etc. Materials fee will be charged.

**276A STC BASIC SUPERVISOR COURSE**

**4.5 units, 42 lecture hours, (2 weeks),  
(Pass/No Pass)**

PREREQUISITE: A Standards and Training for Corrections (STC) Probation Officer CORE Course, Adult Correctional Officer CORE Course, or Juvenile Correctional Officer CORE course certificate issued from an accredited training provider for STC or equivalent as determined by the Division Dean or their appointee. These skills and knowledge base are related to adopted STC and/or industry standards. NOTE: approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

This course meets the 80-hour requirement of Minimum Jail Standards Title 15, Section 181 for supervising adult corrections officer, supervising probation officer, or supervising juvenile corrections officer. Topics include role identification, leadership styles, investigations, role transition, assertive leadership, training, employee relations, administrative support, stress, performance appraisal, communications, media relations, counseling, planning and organization, discipline, report review, values/ethics and principles, and liability issues. Material fees are charged for this course.

**276B SUPERVISOR ENHANCEMENT COURSE**

**1 unit, 1.4 lecture hours, (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 276. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Develops current first line supervisors skills related to supervision, tactical situations, employee development, community involvement, accountability, expectations of themselves, and self-growth as a supervisor.

**278 PUBLIC SAFETY DISPATCHER**

**7 units, 8.4 lecture hours, (15 weeks),  
(Pass/No Pass), (Formerly Administration  
of Justice 89 and 78)**

PREREQUISITE: A Standards and Training for Corrections (STC) Probation Officer CORE Course, Adult Correctional Officer CORE Course, or Juvenile Correctional Officer CORE course certificate issued from an accredited training provider for STC or equivalent as determined by the Division Dean or their appointee. These skills and knowledge base are related to adopted STC and/or industry standards. NOTE: approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

This course meets the 80-hour requirement of Minimum Jail Standards Title 15, Section 181 for supervising adult corrections officer, supervising probation officer, or supervising juvenile corrections officer. Topics include role identification, leadership styles, investigations, role transition, assertive leadership, training, employee relations, administrative support, stress, performance appraisal, communications, media relations, counseling, planning and organization, discipline, report review, values/ethics and principles, and liability issues. Material fees are charged for this course.

**279 CITIZENS' POLICE ACADEMY**

**0.5 unit, 3.15 lab hours, (17 weeks),  
(Pass/No Pass), (Formerly Administration  
of Justice 79)**

PREREQUISITE: None.

To educate and inform citizens regarding the function and duties of law enforcement personnel. Materials fee will be charged.

**284 COMMUNICATIONS TRAINING OFFICER**

**2 units, 42 lecture hours, (1 week),  
(Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Dispatcher Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police dispatch center operations, because as first line training officer you must have a wide variety communication center operations. Due to giving citizen callers preliminary instructions via telephone, prior to police officer arrival, the students will also be required to have detailed knowledge of California law, case law, evidence collection, and criminal justice procedures. Knowledge of Penal and Vehicle codes used in policing; knowledge of Health & Safety codes; knowledge of local, state and federal laws pertaining to policing required in public safety dispatching; knowledge of proper use of verbal communication used in law enforcement contacts with the public; Knowledge, and familiarity with, common communication center dispatching software; Knowledge of the rank structure in policing; knowledge, and familiarity of, local, state, and federal laws, and policies, pertaining to law enforcement.

Prepare experienced public safety dispatchers to serve as trainers for new employees, covers the role and duties of the Communications Training Officer (CTO), adult learning concepts, mentoring, evaluating, and documentation of training.



**285 PROBATION CORE COURSE**

**10 units, 33.9 lecture hours, 8.1 lab hours, (6 weeks), (Pass/No Pass), (Open Entry/Open Exit), (Formerly Administration of Justice 85)**

PREREQUISITE: None.

Knowledge and skills essential for newly hired Probation Officers.

Materials fee will be charged.

**286 JUVENILE CORRECTIONAL OFFICER CORE**

**8 units, 25.04 lecture hours, 16.56 lab hours, (5 weeks), (Pass/No Pass), (Open Entry/Open Exit), (Formerly Administration of Justice 86)**

PREREQUISITE: None.

Knowledge and skills essential for newly hired Juvenile Counselors to meet maximum performance standards and to obtain maximum benefits from subsequent on-the-job training. Meets certification requirements for California Standards and Training for Corrections. Materials fee will be charged.

**290 FIREARMS INSTRUCTORS COURSE**

**2 units, 42 lecture hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 90)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are listed in Entrance Skill of this course. Must be able to demonstrate physical ability to use a firearm in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to entering a POST approved course. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of proper and safe firearms handling; ability to achieve a qualifying score during hand gun shooting; ability to achieve a qualifying score during shotgun training; ability to achieve a qualifying score during AR 15 shooting; knowledge of proper and safe tactical movement; knowledge of, and familiarity with sustained physical performance demands on law enforcement officers under emergency and stressful situations; knowledge of proper weapons transitioning techniques; knowledge of proper and safe handling and use of nonlethal weapons;

knowledge of, and familiarity with, California Penal codes used in law enforcement related to firearms carry laws; knowledge of effective verbal communication used in law enforcement pertaining to use of force warnings; knowledge of, and familiarity with, case law pertinent to law enforcement shootings; ability to perform CPR and First Aid techniques.

Designed to prepare the student with the fundamentals of teaching law enforcement firearms techniques to others and to create and administer a safe and quality Firearms Training Program. Various shooting styles and updated instruction on the most effective contemporary techniques used in law enforcement today. How to diagnose shooting problems through target analysis, and how to properly correct the problems. Materials fee will be charged.

**291 FIELD TRAINING OFFICER**

**2 units, 42 lecture hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 91)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police operations, because as first line police training officer you must have a wide variety of law enforcement daily operations. The first line training officer will need to possess deep operational knowledge because in part, he or she will be called upon to make judgments regarding the in-field training of police officers. Students will also be required to have detailed knowledge of California law, case law, evidence collection, and criminal justice procedures. Knowledge of, and familiarity with, proper use of force during law enforcement operations; knowledge, and familiarity with, Penal and Vehicle codes; knowledge, and familiarity with, Health & Safety codes; knowledge of proper use of verbal and non-verbal communication used in law enforcement contacts with the public; knowledge of, and familiarity with, current case law related to proper law enforcement procedures in daily policing; knowledge of the proper use of police weaponry as it pertains to its use in daily policing; Knowledge of the rank structure in policing; knowledge, and familiarity of, local, state, and federal laws, and policies, pertaining to law enforcement.

Training of experienced officers so they can provide field training to new recruits. Evaluation, motivation, and discipline; issues of supervision, value and ethics, adult learning processes, counseling, and role of the training officer. Materials fee will be charged.

**291A FTO UPDATE**

**1 unit, 25.2 lecture hours, (1 week),  
(Pass/No Pass)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Course requires extensive knowledge of all types of police operations, because as first line police training officer you must have a wide variety of law enforcement daily operations. The first line training officer will need to possess deep operational knowledge because in part, he or she will be called upon to make judgments regarding the in-field training of police officers. Students will also be required to have detailed knowledge of California law, case law, evidence collection, and criminal justice procedures. Knowledge of, and familiarity with, proper use of force during law enforcement operations; knowledge, and familiarity with, Penal and Vehicle codes; knowledge, and familiarity with, Health & Safety codes; knowledge of proper use of verbal and non-verbal communication used in law enforcement contacts with the public; knowledge of, and familiarity with, current case law related to proper law enforcement procedures in daily policing; knowledge of the proper use of police weaponry as it pertains to its use in daily policing; Knowledge of the rank structure in policing; knowledge, and familiarity of, local, state, and federal laws, and policies, pertaining to law enforcement.

Reviews the concept and structure of a Field Training Program in law enforcement, include; Goals of a FTO program, Ethics, Coaching, Teaching/Training demonstrations, Evaluations, Driver Safety Issues, Intervention Techniques, Remediation, Documentations and other issues related to the FTO environment.

**291B POLICE FIELD TRAINING TECHNIQUES UPDATE**

**0.1 unit, 0.06 lecture hour, 0.28 lab hour,  
(Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Administration of Justice 270B. A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. These skills and knowledge base are related to adopted POST or industry standards. Students must have legal authority to possess law enforcement weapons/equipment involved in the course. Students must have completed any related basic certification before attending update courses. NOTE: Approval of equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.

Intended for current Field Training Officers to update them on new and current law enforcement trainee training methods, concerns, and policies.

**295 TRAFFIC COLLISION INVESTIGATION  
2 units, 42 lecture hours, (1 week), (Pass/  
No Pass), (Formerly Administration of  
Justice 81 and 95)**

PREREQUISITE: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the Division Dean, Director or their representative. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students must already be familiar with, and be able to demonstrate, all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced student training that builds upon them. These minimum skill levels are:

Knowledge of Vehicle codes pertaining to policing; knowledge of persons under the influence of drugs or alcohol related to vehicle collision investigations; knowledge of, and familiarity with, officer safety during Field Sobriety Testing in the field during policing; knowledge of, and familiarity with, courtroom testimony related to policing; knowledge of, and familiarity with, evidence collection pertaining to policing; Knowledge of, and familiarity with, police report writing.

Training in proper traffic collision investigations procedures and proper recording format as prescribed by the Collision Investigation Manual (HPN 110.5) for state-wide use. Satisfies requirements of Police Officer Standards and Training (POST) and California Vehicle Code Section 40600a. Materials fee will be charged.

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**AEROSPACE STUDIES (AEROST)**

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**1A HERITAGE AND VALUES OF THE UNITED STATES AIR FORCE**

**1 unit, 1 lecture hour**

COREQUISITE: Aerospace Studies 3. ADVISORY: Eligibility for English 1A recommended.

A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. (A, CSU, UC)

**1B HERITAGE AND VALUES OF THE UNITED STATES AIR FORCE**

**1 unit, 1 lecture hour**

COREQUISITE: Aerospace Studies 3. ADVISORY: Eligibility for English 1A recommended.

A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. (A, CSU, UC)

**2A TEAM AND LEADERSHIP FUNDAMENTALS**  
**1 unit, 1 lecture hour**

COREQUISITE: Aerospace Studies 3. ADVISORY: Eligibility for English 1A recommended.

"Team and Leadership Fundamentals" focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. (A, CSU, UC)

**2B TEAM AND LEADERSHIP FUNDAMENTALS**  
**1 unit, 1 lecture hour**

COREQUISITE: Aerospace Studies 3. ADVISORY: Eligibility for English 1A recommended.

"Team and Leadership Fundamentals" focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. (A, CSU, UC)

**3 LEADERSHIP LABORATORY**

**1 unit, 3 lab hours, (Pass/No Pass)**

COREQUISITE: Aerospace Studies 1A, or 1B, or 2A, or 2B. (Note: if a cadet has taken all 4 of the possible corequisite courses, they do not need to enroll in a corequisite course again. They can then take Aerospace 3 as a stand-alone course.)

A practicum of Air Force customs and courtesies, issuing military commands, instructing, directing and evaluating the preceding skills, studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. (A, CSU, UC)

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**AFRICAN-AMERICAN STUDIES (AFRAM)**

**FORMERLY CULTURAL STUDIES/BLACK STUDIES**

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**1 INTRODUCTION TO AFRICAN-AMERICAN STUDIES**

**3 units, 3 lecture hours, (Formerly Cultural Studies 1)**

ADVISORY: Eligibility for English 1A recommended.

Introduction to African-American Studies: an interdisciplinary study of African-American history and heritage from Pre Colonial West Africa through the 21st Century. (A, CSU-GE, UC, I)

**2 AFRICAN AMERICAN CULTURAL ADAPTATION**

**3 units, 3 lecture hours, (Formerly Cultural Studies 2)**

ADVISORY: Eligibility for English 1A recommended.

Examination and evaluation of the dynamic development of African American culture from the era of enslavement through the election of the first African American President of the United States. (A, CSU, UC)

**3 AFRICAN-AMERICAN ART**

**3 units, 3 lecture hours, (Formerly Cultural Studies 3)**

ADVISORY: Eligibility for English 1A recommended.

Introduction and overview of the creative production of African and African American people through different media: painting, architecture, sculpture, drawing, and painting. (A, CSU-GE, UC, I)

**4 CLASSICAL AND PRE COLONIAL AFRICA**  
**3 units, 3 lecture hours, (Formerly Cultural Studies 4)**

ADVISORY: Eligibility for English 1A recommended.

Classical African society from its earliest origins through the European Colonialization through interdisciplinary study of religion, law, art, science, education, social obligations, and the centrality of the family unit. (A, CSU-GE, UC, I)

**5 THE AFRICAN DIASPORA OF THE AMERICAS**

**3 units, 3 lecture hours, (Formerly Cultural Studies 5)**

ADVISORY: Eligibility for English 1A recommended.

A historical overview and contemporary evaluation of the African diaspora of the Colonial Era focusing on North American, South America and the Caribbean. (A, CSU, UC)

**6 AFRICAN CULTURES AND LANGUAGES**  
**3 units, 3 lecture hours, (Formerly Cultural Studies 6)**

ADVISORY: Eligibility for English 1A recommended.

Introduction and overview of West African linguistic traits, colonial language adaptation and cultural implication of language usage. Includes evaluation of music elements as language and traits that were carried by the African Diaspora to the Americas and Caribbean. (A, CSU, UC)

- 8 AFRICAN-AMERICAN CREATIVE WORKSHOP**  
**3 units, 2 lecture hours, 3 lab hours, (Formerly Cultural Studies 8)**  
 ADVISORY: Eligibility for English 1A recommended.  
 A creative multi-discipline workshop based on the history and culture of the African-American. (A, CSU-GE, UC)
- 15 AFRICAN-AMERICAN MUSIC**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Introduction and overview of the music of African Americans including West African traditions and styles, Antebellum music, the Harlem Renaissance and other post Reconstruction era music, Jazz music and the many derivatives and variations of African American music of the 20th century, though contemporary genres of Rap and Hip Hop. (A, CSU-GE, UC, I)
- 17 AFRICAN-AMERICAN LITERATURE**  
**3 units, 3 lecture hours, (See also English 17)**  
 PREREQUISITE: English 1A or equivalent.  
 Reading critical works of African and African-American writers and understanding cultural values and themes as expressed in essays, short stories, novels, poetry, and plays. (A, CSU-GE, UC, I)
- 34 HISTORY OF THE AMERICAN CIVIL RIGHTS MOVEMENT**  
**3 units, 3 lecture hours, (See also History 34)**  
 ADVISORY: English 1A recommended.  
 History of the struggle for civil and human rights in American history, focusing on the African American movement. Legal, moral, ethical, religious and humanistic foundations of the Movement. Forms of discrimination, segregation and oppression and various forms of resistance to them. Efforts to protect human and civil rights in the United States. (A, CSU-GE, UC, I)
- 41 AFRICAN-AMERICAN WOMEN'S STUDIES**  
**3 units, 3 lecture hours, (See also Women's Studies 41), (Formerly Cultural Studies 41)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Analyzes the social, political, and cultural history of African American women in the United States from an interdisciplinary perspective including the complex ways that ethnicity, class and gender have shaped African American women's lives and the strategies they have used to empower themselves and their communities. (A, CSU, UC)

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## AIR CONDITIONING

SEE HEATING, VENTILATION, AND AIR CONDITIONING

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## ALLIED HEALTH (AHLTH)

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### 1 INTRODUCTION TO PUBLIC HEALTH

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

An introduction to the discipline of Public Health. Basic concepts and terminologies of public health and the history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions and an in-depth examination of the core public health disciplines. Topics include the epidemiology of infectious and chronic disease, prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations, community organizing and health promotion programming, environmental health and safety, global health, and health care policy and management. (C-ID PHS 101 and PHS 102) (A, CSU, UC)

### 2 HEALTH AND SOCIAL JUSTICE

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

This course provides an introduction to the health inequities in the United States that stem from unequal living conditions. Students will explore how education, socioeconomic status, racism and gender shape health epidemics and policy development. The basic skills necessary for advocating for health and social justice will be theoretically demonstrated. (A, CSU, UC)

### 3 PUBLIC HEALTH AND INFECTIOUS DISEASE TRACING

**1 unit, 1 lecture hour**

PREREQUISITE: None.

Introductory course that will provide an overview of coronavirus disease 2019 (COVID-19), including incubation, infectious period, symptoms, and how to prevent it. The clinical presentation of COVID-19, and the evidence for how COVID-19 is transmitted from person-to-person and why contact tracing has traditionally been such an effective public health intervention. Students will learn how contact tracing is done, including how to build rapport with cases, identify their contacts, and learn how supporting both cases and their contact can effectively break the chain of disease transmission. The course will also cover several important ethical considerations around contact tracing, isolation, and self-quarantine. The course will identify some of the most common barriers to contact tracing efforts, along with strategies to overcome them. Case investigation and contact tracing are well-honed skills that adapt easily to new public health demands and are effective tools to slow the spread of infectious diseases in a community. (A, CSU)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL****1-8 units, 3.33-33.3 lab hours**

COREQUISITE: Allied Health 204. Fall and Spring Semesters:

Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors. ADVISORY: Eligibility for English 1A recommended.

Supervised employment extending the classroom based on occupational learning related to the student's major. Collaborative learning objectives established specific to the particular occupational field. Seventy-five hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**20 IMPROVING CULTURAL COMPETENCE THROUGH CROSS-CULTURAL EXPERIENCE****2 units, 2 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Identifying cultural and spiritual differences and developing strategies to overcome potential conflicts. Intended for study abroad. (A, CSU)

**21 CULTURALLY RELEVANT HEALTH PROMOTION EXPERIENCE****2 units, 2 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Short term field study abroad course to research and identify basic health promotion activities relevant to the country and local ethnic groups. (A, CSU)

**100 INTRODUCTION TO HEALTH CAREERS****2 units, 2 lecture hours**

PREREQUISITE: None.

A prerequisite course for allied health programs to establish a solid foundation in the understanding of allied health professions and the multidisciplinary environment. (A)

**104 AUTISM TECHNICIAN TRAINING****3 units, 3 lecture hours**

PREREQUISITE: None.

Prepares students for entry-level positions in the field of behavioral health treatment for individuals with autism spectrum disorders (ASD). Students who successfully complete the course will have the training and experience required to be eligible to take the exam to become a Registered Behavior Technician (RBT). Provides students with foundational knowledge in autism spectrum disorders (ASD), applied behavior analysis, and evidence-based intervention techniques. (A)

**AMERICAN INDIAN STUDIES (AMIND) FORMERLY NATIVE AMERICAN STUDIES****31 AMERICAN INDIAN CULTURE****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

The Native Nations of North America (American Indians) from antiquity to the present; regional survival strategies and expressive arts; effects of invasion and colonization with an emphasis on self-preservation and continuing sovereignty. (A, CSU-GE, UC, I)

**32 AMERICAN INDIAN HISTORY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

The history of the American Indian nations from antiquity to the mid-20th century, with an emphasis on pre-Columbian life, the European invading nations, and federal-Indian relations in the United States. (A, CSU, UC)

**34 THE AMERICAN INDIAN IN CONTEMPORARY SOCIETY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

American Indian in North America after the Second World War to the present; emphasis on current events and legislation; issues involving the inherent sovereignty of American Indian nations and their place in modern global society. (A, CSU-GE, UC, I)

**35 AMERICAN INDIAN ART****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Major American Indian art traditions of North America. Pre-contact and early-contact-era traditions and the evolution of Indian art forms in contemporary times. Design and techniques in Indian art. Emphasis on North, Central and South America. (A, CSU-GE, UC, I)

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**AMERICAN SIGN LANGUAGE**SEE FOREIGN LANGUAGES

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**AMERICAN STUDIES (AMST)**

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**10 AMERICAN PLURALISM: A SEARCH FOR COMMON GROUND IN A MULTICULTURAL SOCIETY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Multidisciplinary examination of racial and ethnic identity in a multicultural society, the roots of prejudice and of religious and ethnic animosities, with special emphasis on what forces unite as well as divide this country. (C-ID SJS 110) (A, CSU-GE, UC, I)

**11 LAW AND DEMOCRACY****3 units, 3 lecture hours**

PREREQUISITE: English 1A.

Evaluation, debate, and critical analysis of law and legal issues that affect individuals, their families, and communities. Practical and historical aspects of civil, criminal, constitutional, immigration, and consumer law in a diverse society, with an orientation toward civic involvement in the local community. Includes an interdisciplinary exploration of themes such as equality, citizenship, access, and social justice. (C-ID LPPS 110 and SJS 110) (A, CSU-GE, UC, I)

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**ANTHROPOLOGY (ANTHRO)**

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**1 BIOLOGICAL ANTHROPOLOGY****3 units, 3 lecture hours**

ADVISORY: English 1A.

Concepts, methods of inquiry, and scientific explanations for biological evolution and application to the human species. Topics include: genetics, evolutionary theory, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. Scientific method serves as foundation of the course. (C-ID ANTH 110) (A, CSU-GE, UC, I)

**1L BIOLOGICAL ANTHROPOLOGY LABORATORY****1 unit, 3.5 lab hours**

COREQUISITE: Anthropology 1. ADVISORY: English 1A and Mathematics 201.

A hands-on laboratory experience to supplement Biological Anthropology. May be taken either concurrently with Anthropology 1 or in a subsequent term. Exercises will provide additional experience and hands-on activities to expand student learning in the following major subject areas: the scientific method, evolution and natural selection with a specific focus on human evolution, evolutionary genetics, modern human variation, forensic anthropology, primate anatomy and behavior, and the hominid fossil record. (A, CSU-GE, UC, I)

**2 CULTURAL ANTHROPOLOGY****3 units, 3 lecture hours**

ADVISORY: English 1A.

Explores how anthropologists study human culture. The broad arc of human experiences: subsistence, social, political, and economic organization, communication and creative expression, family and kinship, belief systems. Includes discussion of gender, racial and ethnic identity labels, and the effects of colonialism and globalization. Ethnographic case studies; professional anthropological research ethics; the application of anthropology to understanding humans around the globe. (C-ID ANTH 120) (A, CSU-GE, UC, I)

**2H HONORS CULTURAL ANTHROPOLOGY****3 units, 3 lecture hours, (Formerly Honors 2A)**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program. See Honors Program listing in the college catalog.

Explores how anthropologists study human culture. The broad arc of human experiences: subsistence, social, political, and economic organization, communication and creative expression, family and kinship, belief systems. Includes discussion of gender, racial and ethnic identity labels, and the effects of colonialism and globalization. Ethnographic case studies; professional anthropological research ethics; the application of anthropology to understanding humans around the globe. Honors takes a greater cross-disciplinary perspective, places greater emphasis on the use of anthropology on the understanding of the modern world, and more critically evaluates the methods and theory of anthropology. (C-ID ANTH 120) (A, CSU-GE, UC, I)

**3 ARCHAEOLOGY AND WORLD PREHISTORY**  
**3 units, 3 lecture hours**

ADVISORY: English 1A.

A broad survey of physical and cultural evolution of the human species from the earliest signs of "humanness" through the rise of civilization as understood through the archaeological record. Includes a brief introduction to the methods of archaeology and the interdisciplinary nature of archaeological research. (A, CSU-GE, UC, I)

**4 INTRODUCTION TO ARCHAEOLOGY**  
**3 units, 3 lecture hours**

ADVISORY: English 1A, Mathematics 102, and knowledge of basic arithmetic recommended.

Introduction to the study of concepts, theories, data and models of anthropological archaeology that contribute to knowledge of the human past. Includes discussion of the nature of scientific inquiry, the history and interdisciplinary nature of archaeological research; dating techniques, methods of survey, excavation, analysis, and interpretation incorporating selected cultural sequences; cultural resource management; professional ethics. (C-ID ANTH 150) (A, CSU-GE, UC, I)

**8 LANGUAGE AND CULTURE**  
**3 units, 3 lecture hours**

ADVISORY: English 1A.

Introductory foundation for understanding language from an anthropological perspective, addresses how, what, when, where, why and with whom we communicate. Surveys three areas in linguistic anthropology: structural, historical, and sociocultural linguistics emphasizing the relationship between language and culture. Issues of language conservation and loss. (C-ID ANTH 130) (A, CSU-GE, UC, I)

**12 VISUAL ANTHROPOLOGY: INTRODUCTION TO ETHNOGRAPHIC FILM**  
**3 units, 3 lecture hours**

ADVISORY: English 1A.

Introduction to the use of film by anthropologists as a research and educational tool. Films depicting different cultures from around the world are viewed and evaluated. Various attributes of ethnographic film are examined. (A, CSU, UC, I)

**13 ANTHROPOLOGY OF MAGIC, WITCHCRAFT, AND RELIGION**  
**3 units, 3 lecture hours**

ADVISORY: English 1A.

A cross-cultural study of the forms and functions of supernatural beliefs and associated rituals in various societies. Emphasis is on understanding beliefs and rituals within their social contexts, and on broad comparisons to derive insights into the general functions of beliefs and rituals in human life. (A, CSU, UC)

**15 LABORATORY METHODS IN ARCHAEOLOGY**

**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Anthropology 4. ADVISORY: English 1A, Mathematics 102, and knowledge of basic arithmetic recommended.

The archaeological laboratory and its relationship to archaeological project development and organization; artifact identification, analysis, and cataloging processes including lithic, ceramic, bone, historic and other artifact types. (A, CSU, UC)

**16A FIELD ARCHAEOLOGY I**  
**2 units, 1 lecture hours, 3 lab hours,**  
**(Formerly Anthropology 6)**

PREREQUISITE: Anthropology 4. ADVISORY: English 1A, Mathematics 102, and knowledge of basic arithmetic recommended.

Field experience in archaeology. Development of practical skills including archaeological survey, excavation, mapping, and site recording; artifact, feature, site, and cultural landscape identification in field situations; and logistics of archaeological projects. Required orientation meeting prior to field experience. (A, CSU, UC)

**16B FIELD ARCHAEOLOGY II**  
**2 units, 1 lecture hour, 3 lab hours**

PREREQUISITE: Anthropology 4 and 16A. ADVISORY: English 1A, Mathematics 102, and knowledge of basic arithmetic recommended.

A second experience in archaeological field work. Continues development of practical skills in archaeological field work with the addition of higher level responsibilities. (A, CSU, UC)

**24 DOING ARCHAEOLOGY: HANDS-ON!**  
**1.5 units, 1 lecture hour, 2 lab hours**

COREQUISITE: Anthropology 4. ADVISORY: English 1A, Mathematics 102, and knowledge of basic arithmetic recommended.

Hands-on experience in archaeology: artifact identification; compass use; survey methods; unit, site, and feature mapping; setting up archaeological excavation units; introduction to topographic maps and their use in archaeology especially the use of the Universal Transverse Mercator and Public Lands Survey grid systems. Introduction to site record forms. (A, CSU, UC)

**28 ANCIENT MEXICO**  
**3 units, 3 lecture hours, (See also Chicano-Latino Studies 28)**

ADVISORY: English 1A.

A survey of history, geography, socio-political, religious systems, and cultural achievements of Mesoamerican civilizations such as the Olmec, Zapotec, Teotihuacano, Mayan, Toltec, and Aztec/Mexican. (A, CSU, UC)

**30 TOPICS IN ANTHROPOLOGY****1-4 units, 1-3 lecture hours, 0-9 lab hours**

ADVISORY: English 1A.

Examination of topics, current trends, and/or issues in the subdisciplines of anthropology not covered by regular catalog offerings. Course content and unit credit to be determined by faculty. May be offered in seminar, lecture, and/or laboratory format. Recommended preparation varies with topic. (A, CSU, UC approved as variable topics; evaluation completed by individual campuses after admission.)

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**APPLIED TECHNOLOGY (AT)**

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**10 TECHNICAL COMPUTER APPLICATIONS****3 units, 3 lecture hours, 1 lab hour,****(Formerly Industrial Education 23)**

PREREQUISITE: None.

An introduction to computers, elements of computer hardware and software and how they are used in the workplace, and the social impact of computers. Hands-on introduction and development of general computer skills for technical programs such as word processing, spreadsheet, presentation applications, and email. (A, CSU, UC)

**19 WORK EXPERIENCE (COOPERATIVE),  
OCCUPATIONAL****1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to Applied Technology Division departments. Collaborative learning objectives established specific to the particular occupational field. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**21 OCCUPATIONAL SAFETY AND HEALTH****2 units, 2 lecture hours, 0.5 lab hours,****(Formerly Industrial Education 36)**

ADVISORY: Applied Technology 10.

Employer and employee responsibility, federal and state legislation, accident reports, industrial hygiene, personal protective equipment, materials handling and storage, hazard communication, guarding machines and mechanisms, hand and portable power tools, electrical safety, and fire protection. (A, CSU)

**40 PREPARING FOR EMPLOYMENT  
OPPORTUNITIES****3 units, 3 lecture hours, (Formerly Industrial  
Education 37)**

ADVISORY: Applied Technology 10.

Development of human relations competencies and professional workplace communications including written, oral and presentation skills in the work world. Development of job-seeking skills including preparing resumes, preparing portfolios and honing job search and interview skills. (A, CSU)

**130 INDUSTRIAL MATHEMATICS****3 units, 3 lecture hours, (Formerly Industrial  
Education 60)**

PREREQUISITE: None.

Trade-related math problems including the use of signed numbers, fractions, ratios and proportions, percentages, algebraic expressions, exponents, polynomials, factoring, algebraic fractions, radical expressions and measuring tools with particular emphasis to the trades.

**131 TECHNICAL REPORT WRITING****3 units, 3 lecture hours, (Formerly Drafting  
43 and Applied Technology 31)**

ADVISORY: Applied Technology 10.

Learn about the different types of written job-related reports. An emphasis is placed on job-related records, forms, and letters. (A)

**140 INTRODUCTION TO MACHINE SHOP****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: None.

Introduction to machine shop equipment in regards to safety, operation and application. (A)

**150 PNEUMATIC & HYDRAULIC SYSTEMS****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: None.

Principles and practices of hydraulics/pneumatics as used in the industry. Study of the different applications and management of hydraulics for the most efficient use. Basic pneumatic principles and application systems. (A)

**160 MECHANICAL POWER DRIVE SYSTEMS****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: None.

The theory behind and practical principles of using mechanical power to do work and includes power sources, drive trains, gearboxes, conveyor systems, and specialized transmission devices. Emphasis will be placed on troubleshooting and repair techniques, safety and reliability. (A)



**340 INTRODUCTION TO MACHINE SHOP**  
**2 lecture hours, 3 lab hours, (Pass/No Pass)**  
 PREREQUISITE: None.  
 Introduction to machine shop equipment in regards to safety, operation and application.

**350 PNEUMATIC & HYDRAULIC SYSTEMS**  
**2 lecture hours, 3 lab hours, (Pass/No Pass)**  
 PREREQUISITE: None.  
 Principles and practices of hydraulics/pneumatics as used in the industry. Study of the different applications and management of hydraulics for the most efficient use. Basic pneumatic principles and application systems.

**360 MECHANICAL POWER DRIVE SYSTEMS**  
**3 lecture hours, 1 lab hour, (Pass/No Pass)**  
 PREREQUISITE: None.  
 The theory behind and practical principles of using mechanical power to do work and includes power sources, drive trains, gearboxes, conveyor systems, and specialized transmission devices. Emphasis will be placed on troubleshooting and repair techniques, safety and reliability.

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## APPRENTICESHIP (APP)

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**100 FORKLIFT ORIENTATION INITIAL**  
**2 units, 2 lecture hours, 0.5 lab hour,**  
**(Pass/No Pass)**  
 PREREQUISITE: Registered Apprentice with LiUNA! Northern California District Council of Laborers.  
 An introduction to gain the understanding of current regulations, common type of Rough Terrain Variable Reach Lift trucks and understand why you conduct pre-shift inspections. Learn techniques for safe operation of Rough Terrain Variable Reach lift truck by hands-on operation and maneuvering accordance with OSHA Standard 29 CFR 1910.178(l). (A)

**101 FUNDAMENTALS OF CONSTRUCTION**  
**3.5 units, 3 lecture hours, 1.5 lab hours,**  
**(Pass/No Pass)**  
 PREREQUISITE: Registered Apprentice with LiUNA! Northern California District Council of Laborers.  
 An introduction to provide the trainees with basic overview of the general practices of construction work, including safety, tools, techniques, terms, safe work habits and knowledge of the industry. In accordance with the CAL-OSHA CCR Title 8 and OSHA CFR 1926 Construction Standards that are applicable to courses being covered. (A)

**102 HAZARDOUS WASTE REMOVAL INITIAL**  
**2 units, 2 lecture hours, 0.5 lab hour, (Pass/No Pass)**  
 PREREQUISITE: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to instruct trainees in the types of hazards and situations that can be encountered on the job site. trainees will learn protective measures, proper use of equipment and learn safety and health issues, in accordance with 29 CFR 1910.120, 132, 143, 146, and 1200. (A)

**103 SAFETY CERTIFICATION**  
**2 units, 2 lecture hours, 0.5 lab hour, (Pass/No Pass)**  
 PREREQUISITE: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

Introduction to safety requirements set forth by the Occupational Safety and Health Administration (OSHA), Construction Industry Standards and General Standards, as they relate to the Construction Industry. Students may earn OSHA 10, OSHA 30, Cal-OSHA 10, and/or Cal-OSHA 30. (A)

**104 AERIAL WORK PLATFORM INITIAL**  
**0.5 unit, 0.25 lecture hour, 0.75 lab hour,**  
**(Pass/No Pass)**  
 PREREQUISITE: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to provide the trainees with the knowledge of current regulations, common type of aerial work platforms and understand the need to conduct pre-shift inspections. Learn techniques for safe operation and maneuvering. Teach trainees to work safely on and around self-propelled aerial work platforms, such as scissor-lifts and boom lifts. (A)

**105 RIGGING AND SIGNALING**  
**2 units, 2 lecture hours, 0.5 lab hour, (Pass/No Pass)**  
 PREREQUISITE: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

Provide the trainees with an understanding of the safe approach to Rigging and Signaling. Describe and demonstrate the state procedures of Rigging and Signaling in accordance with OSHA CFR 1926.251 and 1926.5 Construction. (A)

**106 SKID STEER LOADER ORIENTATION INITIAL****2 units, 2 lecture hours, 0.5 lab hour, (Pass/No Pass)**

PREREQUISITE: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to provide student trainees with a good understanding of how to operate mobile equipment, learn current safety procedures and proper maintenance of a skid steer loader (Bobcat). (A)

**107 CONCRETE TECHNIQUES****3.5 units, 3 lecture hours, 1.5 lab hours, (Pass/No Pass)**

PREREQUISITE: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

Familiarize students with concrete safety, its history, properties and components. It includes a hands-on portion in accordance with Cal-OSHA CCR Title 7 1712-1722 and OSHA CFR 1926.703. (A)

**108 ASPHALT PAVING TECHNIQUES****3.5 units, 3 lecture hours, 1.5 lab hours, (Pass/No Pass)**

PREREQUISITE: Registered Apprentice with LiUNA! Northern California District Council of Laborers.

An introduction to familiarize the trainees with the skills they need to work with Asphalt safely and learn the proper use of tools and equipment needed when working with Asphalt. (A)

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**ARCHITECTURE (ARCH)**

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**10 ARCHITECTURAL DESIGN AND VISUALIZATION I****3 units, 2 lecture hours, 4 lab hours**

ADVISORY: Architecture 14.

Basic principles and concepts of design while concurrently addressing the skills of freehand drawing, manual drafting and visualization. History and development of perspective during the Renaissance. (A, CSU, UC)

**11 INTRODUCTION TO ARCHITECTURE AND ENVIRONMENTAL DESIGN****2 units, 2 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Familiarization with the professional fields of architecture, landscape architecture, structural engineering, city planning and construction. Roles of the architect and the project team. Introduction to design principles and elements. Phases of the construction project. Licensing requirements. Visiting Lecturers. (A, CSU, UC)

**12 ARCHITECTURAL PRACTICE I****2 units, 1 lecture hours, 4 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Methods of construction and drafting practices as applied to architectural contract documents concerning plans and details for light wood frame structures. Use and application of building codes and reference material. Site contours and grading. Field trips may be required. (A, CSU)

**14 DIGITAL TOOLS FOR ARCHITECTS****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Digital tools in the context of architectural practice. Basic 3D modeling and image manipulation. Presentation layout and output. (A, CSU)

**15A HISTORY OF ARCHITECTURE I****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

History of architecture from prehistory to the Middle Ages including Europe, Asia, Africa, and Pre-Columbian America. Relationship between social, cultural, religious, and physical conditions that influenced the built environment. (A, CSU-GE, UC, I)

**15B HISTORY OF ARCHITECTURE II****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

History of architecture from the Renaissance to the 21st century. Relationship between social, cultural, religious, and physical conditions that influenced the built environment. (A, CSU-GE, UC, I)

**20 ARCHITECTURAL DESIGN AND VISUALIZATION II****3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Architecture 10 and 14.

Continuation of Architecture 10. Extended development of the content of Architecture 10 plus the introduction of color theory. Principles and means for the creation of two dimensional and three dimensional organizations. (A, CSU, UC)

**21 MATERIALS OF CONSTRUCTION****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Materials used in the construction of buildings; their applications and limitations. Construction systems and processes. Field trips may be required. (A, CSU)

**22 ARCHITECTURAL PRACTICE II**  
**3 units, 2 lecture hours, 3 lab hours**  
 PREREQUISITE: Architecture 12. ADVISORY: Architecture 24 concurrently recommended.

Continuation of Architecture 12. Further development of drafting practices and contract documents. Emphasis on light commercial materials and construction. Computer-aided drafting in commercial architectural applications. (A, CSU)

**24 BUILDING INFORMATION MODELING**  
**3 units, 2 lecture hours, 3 lab hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Building Information Modeling (BIM) in the context of architectural practice. Generation of architectural plans within a BIM environment to include dimensions, details, basic materials and rendering. (A, CSU)

**30 ARCHITECTURAL DESIGN AND VISUALIZATION III**  
**3 units, 2 lecture hours, 4 lab hours**  
 PREREQUISITE: Architecture 20.  
 Continuation of Architecture 20. Extended development of the content of Architecture 20 plus the introduction of site and climate. Analysis and organizational concepts. Light and function as issues in architecture. (A, CSU, UC)

**31 BUILDING CODES**  
**3 units, 3 lecture hours, (Formerly Architecture 24)**  
 ADVISORY: Eligibility for English 1A recommended.  
 International building codes and local building zoning ordinances. (A, CSU)

**32 STATICS AND STRENGTH OF MATERIALS**  
**3 units, 3 lecture hours, (Formerly Architecture 31)**  
 ADVISORY: Eligibility for English 1A recommended. Working knowledge of basic Algebra is recommended.  
 Static force systems, trusses, shear, moment, and deflection. Physical properties of materials, shear and moment diagrams, and sizing of structural members. (A, CSU)

**34 DIGITAL RENDERING**  
**3 units, 2 lecture hours, 3 lab hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Generation of architectural renderings to include lighting, reflection, environment and beginning animation. (A, CSU)

**40 ARCHITECTURAL DESIGN AND VISUALIZATION IV**  
**3 units, 2 lecture hours, 4 lab hours**  
 PREREQUISITE: Architecture 30.  
 Continuation of Architecture 30. Extended development of the content of Architecture 30 with emphasis on the design process. Projects of an architectonic nature will be completed. Development of an educational portfolio. (A, CSU)

**41A OFFICE PRACTICES**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended. Working knowledge of basic arithmetic is recommended.  
 Contracts, specifications, scheduling, estimating and bid practices and procedures as they relate to architectural practice. (A, CSU)

**42 TIMBER AND STEEL STRUCTURES**  
**3 units, 3 lecture hours, (Formerly Architecture 32)**  
 PREREQUISITE: Architecture 32.  
 Calculation and design of timber and steel structures. Engineering of connections. Completion of structural framing plans. (A, CSU)

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## ARMENIAN

SEE FOREIGN LANGUAGES

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## ART (ART)

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**2 ART APPRECIATION**  
**3 units, 3 lecture hours, (Formerly Art 10)**  
 ADVISORY: English 1A.  
 Introduction to the visual arts and human creativity across history and diverse global cultures. Topics include the media of art, techniques, design principles, subject matter, style and theories of art within historical context. (C-ID ARTH 100) (A, CSU-GE, UC, I)

**3 TWO-DIMENSIONAL DESIGN**  
**3 units, 2 lecture hours, 4 lab hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Introduction to the elements and principles of two-dimensional design which are common to the visual arts. A foundation course stressing visual perception and an effective knowledge of the graphic means of expression and communication. Required for art majors. (C-ID ARTS 100) (A, CSU-GE, UC)

- 4 THREE-DIMENSIONAL DESIGN**  
**3 units, 2 lecture hours, 4 lab hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Exploration and experimentation with the formal elements and principles of visual language in three dimensional design. Required for art majors. Introduces design elements and principles as they apply to 3-dimensional space and form; theory and practice. Includes projects in various media such as: plaster, paper, wood, clay, metal, cement and the use of digital technology. (C-ID ARTS 101) (A, CSU, UC)
- 5 ART HISTORY ANCIENT TO MEDIEVAL**  
**3 units, 3 lecture hours, (Formerly Art 25)**  
 ADVISORY: Eligibility for English 1A recommended.  
 A survey of the Western Art from prehistory to the Medieval period including Neolithic, ancient Near East, Egyptian, Greek, Roman, Islamic, Byzantine, Romanesque and Gothic cultures. (C-ID ARTH 110) (A, CSU-GE, UC, I)
- 5H HONORS ART HISTORY ANCIENT TO MEDIEVAL**  
**3 units, 3 lecture hours, (Formerly Honors 5A)**  
 ADVISORY: English 1AH. Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.  
 A survey of the Western Art from prehistory to the Medieval period including Neolithic, ancient Near East, Egyptian, Greek, Roman, Islamic, Byzantine, Romanesque and Gothic cultures. Honors section will include additional readings of primary and secondary source material along with oral presentations and class discussions. (C-ID ARTH 110) (A, CSU-GE, UC, I)
- 6 ART HISTORY RENAISSANCE TO MODERN**  
**3 units, 3 lecture hours, (Formerly Art 26)**  
 ADVISORY: English 1A.  
 Introductory survey of Western Art from the Renaissance to the modern era. Covers major art styles in Europe and the United States including: Renaissance, Baroque, Neoclassicism, Realism, Impressionism, Cubism, Surrealism and other 20th century avant-garde movements. (C-ID ARTH 120) (A, CSU-GE, UC, I)
- 6H HONORS ART HISTORY RENAISSANCE TO MODERN**  
**3 units, 3 lecture hours, (Formerly Honors 6A)**  
 ADVISORY: English 1AH. Meet the qualifications for consideration for acceptance into the Leon S. Peters Honors Program recommended. See Honors Program listing in the college catalog.  
 A survey of Western Art from the Renaissance to the present. Major art styles and movements covered include Renaissance, Baroque, Neo-Classicism, Impressionism, Cubism, Surrealism, etc. Honors sections will include additional readings of primary and secondary source material, class discussions and oral presentations. (C-ID ARTH 120) (A, CSU-GE, UC, I)
- 7 BEGINNING DRAWING**  
**3 units, 2 lecture hours, 4 lab hours, (Formerly Art 7A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Introduction to the creation of visual images through drawing.  
 Introduction to principles, elements, and practices of drawing, employing a range of subject matter and drawing media. Focus on perceptually based drawing, observational skills, technical abilities, and creative responses to materials and subject matter. (C-ID ARTS 110) (A, CSU-GE, UC)
- 8 BEGINNING FIGURE DRAWING AND ANATOMY**  
**3 units, 2 lecture hours, 4 lab hours, (Formerly Art 8A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Human anatomy for artists with the practice of drawing the human figure from the live model. (C-ID ARTS 200) (A, CSU, UC)
- 9 BEGINNING PAINTING: OIL/ACRYLIC**  
**3 units, 2 lecture hours, 4 lab hours, (Formerly Art 14A)**  
 ADVISORY: Art 3 and 7 and eligibility for English 1A recommended.  
 Introduction to painting through the study of historical and contemporary processes, principles and best practices. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter. (C-ID ARTS 210) (A, CSU-GE, UC)

- 10 BEGINNING CERAMICS**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 11A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Introduction to ceramics materials, concepts, and processes including design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. The course covers aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures. (A, CSU-GE, UC)
- 11 BEGINNING SCULPTURE**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 17A)**  
 ADVISORY: Art 4.  
 Introduction to creative self-expression in a variety of sculptural media which may include but is not limited to clay, steel fabrication, bronze casting, glass casting, stone, wood, plaster, and new media such as installation and 3D printing/scanning. (A, CSU-GE, UC)
- 12A CRAFT WORKSHOP: LIVING TRADITIONS**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 48 and 12)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Introduction to the materials, tools, processes and concepts of a variety of craft media (may include work in fibers, metal, leather, or wood). Cultural and historical traditions as well as contemporary work will be studied. (C-ID ARTS 280) (A, CSU-GE)
- 12B INTERMEDIATE CRAFT WORKSHOP: LIVING TRADITIONS**  
**3 units, 2 lecture hours, 4 lab hours**  
 PREREQUISITE: Art 12A.  
 Further advanced exploration into the tools, materials, and processes of a variety of craft media (may include work in fibers, textiles, paper making, metal, wood, glass or leather). Cultural and historical traditions as well as contemporary work will continue to be studied. (A, CSU-GE)
- 13 BEGINNING WATERCOLOR PAINTING**  
**3 units, 2 lecture hours, 4 lab hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Introduction to principles and practices of watercolor painting. Exploration of water media materials, processes, perceptual skills and color theory, paint mixing and technique, creative exploration of water based media. (A, CSU, UC)
- 14 BEGINNING PRINTMAKING**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 23)**  
 ADVISORY: Eligibility for English 1A recommended.  
 An introduction to the basic materials, equipment, and process of fine art printmaking, including relief (woodcut and linocut), intaglio (drypoint, etching, and collagraph), planography (lithography and monotype) and stencil (screenprint). (A, CSU-GE, UC)
- 15 CERAMIC SCULPTURE**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 12)**  
 ADVISORY: Eligibility for English 1A recommended.  
 An introduction to ceramic sculpture as means of self expression by examining its historic and contemporary role in societies. Technical aspects of ceramic construction and coloring techniques will be introduced in the projects. (A, CSU-GE, UC)
- 16 LIFE PAINTING**  
**3 units, 2 lecture hours, 4 lab hours**  
 PREREQUISITE: Art 8 and 9. ADVISORY: Eligibility for English 1A recommended.  
 Introduction to figure painting from live model and reference. Develop perceptual skills, paint mixing and techniques for painting the figure, costumes and setting. (A, CSU, UC)
- 17 INTERMEDIATE DRAWING**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 7B)**  
 PREREQUISITE: Art 7 or Art 8 or demonstration of comparable skill level determined by a drawing portfolio.  
 Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, 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. (C-ID ARTS 205) (A, CSU-GE, UC)
- 18 INTERMEDIATE FIGURE DRAWING AND ANATOMY**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 8B)**  
 PREREQUISITE: Art 8 or demonstration of comparable skill level determined by a drawing portfolio.  
 Exploration of artistic concepts, style, and creative expression related to intermediate-level figure drawing. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and form. (A, CSU, UC)

**19 INTERMEDIATE PAINTING: OIL/ACRYLIC**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 14B)**

PREREQUISITE: Art 9 or demonstration of comparable skill level to be determined by testing and/or portfolio of past oil/acrylic painting work.

Further investigation into painting through the study of historical and contemporary processes, principles and best practices. Deeper exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter. (A, CSU, UC)

**20 INTERMEDIATE CERAMICS**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 11B)**

PREREQUISITE: Art 10 or 15. ADVISORY: Eligibility for English 1A recommended.

An intermediate exploration of studio ceramics. Construction and decorative processes that promote self-expression will be presented. Contemporary practices of a studio artist will be presented. (A, CSU, UC)

**21 INTERMEDIATE SCULPTURE**  
**3 units, 2 lecture hours, 4 lab hours,**  
**(Formerly Art 17B)**

PREREQUISITE: Art 11 or demonstration of comparable skill level to be determined by testing and/or portfolio of past sculpture work.

Concentrated self-expression in a variety of sculptural media which may include but is not limited to clay, steel fabrication, bronze casting, stone, wood, plaster, and new media such as installation and the use of digital technology. Students will be focusing on 2-3 of the above media and begin developing intermediate skills in their use. (A, CSU, UC)

**22B CRAFT WORKSHOP: CONCEPTS IN FIBERS**  
**3 units, 2 lecture hours, 4 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to basic materials, methods and vocabulary used in fiber and textile media as well as the hands-on development of expressive visual ideas. Contemporary as well as traditional history and cultural relevance of the fiber media is also explored. (A, CSU)

**23 INTERMEDIATE WATERCOLOR PAINTING**  
**3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 13 or demonstration of comparable skill level to be determined by testing and/or portfolio of past watercolor work.

Advanced studies in watercolor painting. Further exploration of water media processes, artistic expression and technique. (A, CSU, UC)

**24A INTAGLIO PRINTMAKING**  
**3 units, 2 lecture hours, 4 lab hours**  
 PREREQUISITE: Art 14.

Intermediate-level intaglio printmaking. Topics may include etching, engraving, drypoint, aquatinting and photo-etching in creating editions of fine art prints. Emphasis is placed upon mastery and the creative use of these techniques. (A, CSU, UC)

**24B LITHOGRAPH PRINTMAKING**  
**3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 14 or demonstration of comparable skill level to be determined by testing and/or portfolio of past printmaking work.

An examination of applied lithographic techniques, concentrating on process and aesthetic development. (A, CSU, UC)

**24C RELIEF PRINTMAKING**  
**3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 14 or demonstration of comparable skill level to be determined by testing and/or portfolio of past printmaking work.

Intermediate-level relief printmaking processes, including experimentation with techniques in monotype, woodblock, linoleum block, and collage print techniques. (A, CSU, UC)

**24D SCREENPRINTING**  
**3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 14 or demonstration of comparable skill level to be determined by testing and/or portfolio of past printmaking work.

Intermediate-level screenprinting processes, including experimentation with techniques in photo, drawing, reductive screenprinting, multicolor on textiles, and cut film. (A, CSU, UC)

**25 MURAL PAINTING**  
**3 units, 2 lecture hours, 4 lab hours. Offered**  
**1 semester each academic year.**

ADVISORY: Eligibility for English 1A recommended. Art 7 and 9. An exploration of the aesthetic and practical applications of mural painting, including historical background, planning, techniques and execution. (A, CSU, UC)

**25A INTERMEDIATE MURAL PAINTING**  
**3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 25. ADVISORY: Eligibility for English 1A recommended.

An advanced exploration of the aesthetic and practical applications of mural painting, including historical background, planning, techniques and execution. (A, CSU, UC)

**27 ADVANCED DRAWING****3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 17 or demonstration of comparable skill level to be determined by testing and/or portfolio of past drawing work.

Exploration of artistic concepts, styles, and creative expression related to advanced-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students in this course will develop a personalized body of work and gain further experience in constructing and preparing drawing supports. (A, CSU, UC)

**28 ADVANCED FIGURE DRAWING AND ANATOMY****3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 18 or demonstration of comparable skill level to be determined by testing and/or portfolio of past figure drawing and anatomy work.

Investigations for the advanced student of figure drawing into artistic concepts, style, creative expression, content and materials. Emphasis is on a personalized related body of work. (A, CSU, UC)

**29 ADVANCED PAINTING: OIL/ACRYLIC****3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 19 or demonstration of comparable skill level to be determined by testing and/or portfolio of past oil/acrylic painting work.

Advanced studies in the act of painting. Emphasis on original artistic voice and development of personal portfolio. (A, CSU, UC)

**31 ADVANCED SCULPTURE****3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 21 or demonstration of comparable skill level to be determined by testing and/or portfolio of past sculpture work.

Development of a portfolio of sculptural work through concentrated advanced self-expression in a variety of sculptural media which may include but is not limited to clay, steel fabrication, bronze casting, stone, wood, plaster, and new media such as installation, social sculptural and performance. (A, CSU, UC)

**32A BEGINNING JEWELRY AND METALSMITHING****3 units, 2 lecture hours, 4 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to wide-range of methods, techniques, and materials used to create jewelry and small metal objects. Introduction to the history of jewelry-making as well as to its cultural expressiveness world wide. (A, CSU)

**32B INTERMEDIATE JEWELRY AND METALSMITHING****3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 32A.

Further exploration into a wide-range of methods, techniques and materials used to create jewelry and small metal objects. Advanced exploration and research into the history of jewelry-making as well as to its cultural expressiveness worldwide. (A, CSU)

**36A INTERMEDIATE WHEEL THROWING****3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 20.

Employing the Potter's Wheel to form functional and expressive pottery and forms. This course examines functional pottery from a contemporary studio practice and from a historic context. Advanced topics of glaze options and various forms will also be covered. (A, CSU, UC)

**38A INTERMEDIATE HAND-BUILDING****3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Art 10 or 15.

Intermediate ceramic hand-building and exploration of clay and glaze chemistry. Historic study of ceramics as a major form of self expression. Students will be introduced to larger scale projects and alternate construction techniques. (A, CSU, UC)

**40 PHOTOGRAPHY AS ART****3 units, 2 lecture hours, 4 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to the processes, principles, and tools of photography as a fine art studio practice. Topics include the development of aesthetic thinking, elements of design and composition, materials and equipment, and contemporary trends in photography. Emphasis is on the development of visual literacy and creative expression. (A, CSU, UC)

**52 INTRODUCTION TO DIGITAL ART/NEW MEDIA****3 units, 2 lecture hours, 4 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Introduces digital and new media art practice. Explores the use of digital technology as tool and medium with an emphasis on conceptual and expressive content. Provides a hands-on introduction to fundamental concepts and practices utilizing contemporary digital tools resulting in the creation of visual artworks. (A, CSU)

- 55 INTRODUCTION TO ASIAN ART**  
**3 units, 3 lecture hours, (See also Asian American Studies 55)**  
 ADVISORY: English 1A.  
 Introduction to the arts of Asia, including China, Japan, Korea, India, and Southeast Asia. Cross-listed with ASAMER-55. (C-ID ARTH 130)(A, CSU-GE, UC, I)
- 60 ART OF THE ANCIENT AMERICAS**  
**3 units, 3 lecture hours, (See also Chicano-Latino Studies 22)**  
 ADVISORY: English 1A.  
 An introduction to the art and architecture of the indigenous cultures of Mesoamerica (Mexico & Central America) and Andean South America prior to European contact. Featured cultures include Olmec, Maya, Toltec, Aztec, Paracas, Nazca, Moche, Wari & Inca. (C-ID ARTH 145) (A, CSU-GE, UC, I)
- 70 MODERN AND CONTEMPORARY ART**  
**3 units, 3 lecture hours**  
 ADVISORY: English 1A.  
 Survey of modern and contemporary art from the 19th to the 21st centuries. Chronological study of the major artistic styles and movements in Europe, the United States and the Global art world. (A, CSU-GE, UC, I)
- 80 TOPICS IN ART**  
**2 units, 2 lecture hours**  
 PREREQUISITE: None.  
 Examination of art and art historical topics, themes and cultures in conjunction with field studies and participation in departmental study abroad program. Course content to be determined by faculty in relation to the locale of the class. Course content may include lectures, seminars, and tours. (A, CSU)
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- ASIAN-AMERICAN STUDIES (ASAMER)**
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- 1 INDO-CHINESE AMERICANS**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 History, culture, and settlement in America of the peoples of Indo-China. The Vietnamese, Cambodian, Lao, and Hmong experience. (A, CSU-GE, UC, I)
- 8 CHINESE CULTURE**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Exploration of the history of Imperial China, the major religions/philosophies, and the culture of the Chinese. Cultural topics will include written language, martial arts, games, art, and mythology. (A, CSU-GE, UC, I)
- 10 HMONG CULTURE**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Explore historical and cultural background of Hmong people who have migrated into the United States of America. Examine their cultural identity, acculturation process, clan system, family dynamics, influential factors that shape their culture, and successes in America. (A, CSU-GE, UC, I)
- 15 INTRODUCTION TO ASIAN-AMERICANS**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Historical and cultural background of major Asian groups that have immigrated into the United States; including Chinese, Japanese, Filipinos, and Southeast Asians. Examines cultural identity, assimilation, interracial relationships, family influences, discrimination and generational conflict. (A, CSU-GE, UC, I)
- 25 ASIAN AMERICAN SOCIAL ISSUES**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Issues of contemporary relevance related to Asian Americans: gender inequality, media representation, workplace concerns, crime, anti-Asian violence, race relations, the changing Asian American family and community, homosexuality, issues in education, and political involvement. (A, CSU-GE, UC, I)
- 55 INTRODUCTION TO ASIAN ART**  
**3 units, 3 lecture hours, (See also Art 55)**  
 ADVISORY: English 1A.  
 Introduction to the arts of Asia, including China, Japan, Korea, India, and Southeast Asia. Cross-listed with ART-55. (A, CSU-GE, UC, I)



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**ASTRONOMY (ASTRO)**


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**10 BASIC ASTRONOMY**

**3 units, 2 lecture hours, 2 lab hours,  
(generally evening only)**

ADVISORY: Eligibility for English 1A recommended. Mathematics 201 recommended.

The night sky from our local solar system to the most distant objects in the universe, including observational and theoretical methods. The history of astronomical discovery, current investigations, cosmology, solar system dynamics, life cycle of stars and galaxies, constellation lore, and the role of gravity on a local and cosmic scale. Optional field trips. (A, CSU-GE, UC, I)

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**AUTOMOTIVE COLLISION REPAIR TECHNOLOGY  
(ACRT)**


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FORMERLY BODY AND FENDER

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**151 BASIC ACR**

**9 units, 4 lecture hours, 16 lab hours, (Day  
Program), (Formerly Body-Fender 51/52)**

ADVISORY: Welding Technology 2A.

Theory and practice in minor auto body repair. Principles of auto construction and design. Correct use and application of body shop hand tools, power tools and equipment. Diagnosis and repair of minor/major collision damage and body alignment. Emphasis on automotive safety procedures and shop safety. Not open to students that have completed Automated Collision Repair Technology 151B. (A)

**151A BASIC ACR**

**4.5 units, 2 lecture hours, 8 lab hours**

ADVISORY: Welding Technology 2A.

Theory and practice in minor auto body repair. Principles of auto construction and design. Correct use and application of body shop hand tools, power tools and equipment. Diagnosis and repair of minor/major collision damage and body alignment. Emphasis on automotive safety procedures and shop safety. (A)

**151B BASIC ACR**

**4.5 units, 2 lecture hours, 8 lab hours**

PREREQUISITE: Automotive Collision Repair 151A.

Theory and practice in minor auto body repair. Principles of auto construction and design. Correct use and application of body shop hand tools, power tools and equipment. Diagnosis and repair of minor/major collision damage and body alignment. Emphasis on automotive safety procedures and shop safety. (A)

**153 ADVANCED ACR**

**9 units, 4 lecture hours, 16 lab hours, (Day  
Program), (Formerly Body-Fender 53/54)**

PREREQUISITE: Automotive Technology Collision Repair 151.

Estimation of body repair and refinishing, analysis of mechanical components, repair of auto plastics, auto body panel replacement and adjustment, restoration of corrosion protection, application of materials for spot repair and complete repaints, surface preparation on all types of substrates, paint materials used in refinishing, refinishing equipment, and other body shop repairs such as glass and trim removal and replacement. Emphasis on automotive safety procedures and shop safety. Not open to students that have completed Automotive Collision Repair Technology 153B. (A)

**153A ADVANCED ACR**

**4.5 units, 2 lecture hours, 8 lab hours**

ADVISORY: Welding Technology 2A.

Estimation of body repair and refinishing, analysis of mechanical components, repair of auto plastics, auto body panel replacement and adjustment, restoration of corrosion protection, application of materials for spot repair and complete repairs, surface preparation on all types of substrates, paint materials used in refinishing, refinishing equipment, and other body shop repairs such as glass and trim removal and replacement. Emphasis on automotive safety procedures and shop safety. (A)

**153B ADVANCED ACR**

**4.5 units, 2 lecture hours, 8 lab hours**

PREREQUISITE: Automotive Collision Repair 153A. ADVISORY: Welding Technology 2A.

Estimation of body repair and refinishing, analysis of mechanical components, repair of auto plastics, auto body panel replacement and adjustment, restoration of corrosion protection, application of materials for spot repair and complete repaints, surface preparation on all types of substrates, paint materials use in refinishing, refinishing equipment, and other body shop repairs such as glass and trim removal and replacement. Emphasis on automotive safety procedures and shop safety.

**155 SPRAY REFINISHING**

**2 units, 1 lecture hour, 3 lab hours,  
(Formerly Body-Fender 55)**

PREREQUISITE: None.

Methods of prepping vehicles for spot repair and complete painting. Application of waterborne basecoat, solvent base coats and urethane clearcoats. (A)

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**AUTOMOTIVE COLLISION REPAIR (ACRCTC)**


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**371 FUNDAMENTALS OF WELDING TECHNOLOGY AND WORKING SHEET METAL**

**2.78 lecture hours, 13.89 lab hours, (300 total hours), (Repeats = 3), (Pass/No Pass), (Open Entry/ Open Exit)**

PREREQUISITE: None.

Theory and practice in MIG welding, oxyacetylene welding, steel rod, brazing rod, plasma cutter, metal shrinking, working sheet metal, welded panel replacement, restoring corrosion protection, hand tool technology, shop safety and efficiency, job success and ASE certification.

**372 BODY WORK TECHNOLOGY**

**2.78 lecture hours, 13.89 lab hours, (300 total hours), (Repeats = 3), (Pass/No Pass), (Open Entry/ Open Exit)**

PREREQUISITE: None.

Collision repair introductions and career. Includes estimating repair costs, vehicle construction and power tool technology, service specification and measurements, using body filler, doing hood, bumper, fender, lid, door, roof, and glass service. Looking at restraint system operation, passenger compartment, body/frame measurement, and unibody/frame realignment.

**373 AUTOMOTIVE REFINISHING TECHNOLOGY**

**2.78 lecture hours, 13.89 lab hours, (300 total hours), (Repeats = 3), (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: None.

Compressed air technology, refinishing materials and fasteners, repairing plastics, refinishing equipment technology, vehicle surface preparation and masking, refinishing procedures, color matching and custom painting, and paint problems and final detailing.

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**AUTOMOTIVE TECHNOLOGY (AUTOT)**


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**9 AUTOMOTIVE ESSENTIALS**

**3 units, 3 lecture hours, (Formerly Industrial Education 9)**

ADVISORY: English 1A and Mathematics 103.

Automotive components, service tools, and equipment. Designed for the prospective Career Technology Education (CTE) teacher and students needing an exploratory course in the automotive field. (A, CSU)

**10 INTRODUCTION TO DIESEL TECHNOLOGY**  
**3 units, 3 lecture hours**

ADVISORY: English 1A and Mathematics 103.

Introduction to the field of diesel-powered trucks and equipment maintenance and service. Shop safety, industrial fasteners, hydraulic fittings, technician tool requirements, service shop organization, service procedures, maintenance schedules, and measuring tools. Designed for students majoring in Diesel Technology or those interested in the industry. (A, CSU)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL**  
**1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to automotive technology. Collaborative learning objectives established specific to automotive technology. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**51 PRINCIPLES OF ENGINE THEORY AND SERVICE**

**4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 51), (Formerly Automotive Mechanics 51)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Engine design and operation including diagnosis, failure analysis, and service practices. Designed to accompany work experience in the trade. (A, CSU)

**52 AUTOMOTIVE ELECTRICAL SYSTEMS**

**4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 52), (Formerly Automotive Mechanics**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Basic electrical theory and operation of the automotive electrical components and systems. Testing, diagnosing, and repairing electrical components and systems including automotive computer controls using necessary equipment. Designed to accompany work experience in the trade. (A, CSU)

**53 ENGINE PERFORMANCE**

**4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 53)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Engine theory and construction related to engine performance. History and theory of operation for the different types of automotive systems. Latest technologies in automotive fuel delivery, emission control, and ignition systems. Testing, diagnosing, and repairing fuel, emission, and ignition systems. Use of necessary test equipment. Designed to accompany work experience in the trade. (A, CSU)

**54 SUSPENSION, STEERING, AND WHEEL ALIGNMENT**

**4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 54), (Formerly Automotive Mechanics 53)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Theory and practical application of basic 4-wheel alignment, steering, and suspension systems. Operating principles, component description, diagnosis, repair, and service adjustments. Designed to accompany work experience in the trade. (A, CSU)

**55 POWER TRAINS: TRANSMISSIONS/ TRANSAXLES, DIFFERENTIALS, AND DRIVEAXLES**

**6 units, 3 lecture hours, 10 lab hours, (See also Automotive Technology GM 55), (Formerly Automotive Mechanics 54)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

The principles of automotive power train systems: automatic and manual transmissions/transaxles, transfer cases, clutch assemblies, driveaxles, drivelines, and differentials. Diagnosis, service, and repair. Designed to accompany work experience in the trade. (A, CSU)

**56 AUTOMOTIVE BRAKING SYSTEMS**

**4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 56)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Complete disassembly and reassembly of various automotive braking systems. Operating principles, component description, diagnosis, repair, and service adjustments. Designed to accompany work experience in the trade. (A, CSU)

**57 AUTOMOTIVE HEATING, VENTILATION, AIR CONDITIONING, AND ADVANCED ELECTRONICS**

**4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology GM 57), (Formerly Automotive Technology 60)**

PREREQUISITE: Automotive Technology 52 and 53 or equivalent. COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Theory and practice in automotive heating, ventilation, and air conditioning systems/components. R-12, R-134A, and R-1234yf refrigeration systems, recovery, recycling, charging, leak, and performance testing. Diagnosis, service, and repair of the advance automotive electronics, automatic temperature/ climate control, and other computer controlled systems found on today's late model vehicles. (A, CSU)

**58 INDIVIDUALIZED SKILLS TRAINING (IST) CHASSIS SYSTEMS I LABORATORY**

**1 unit, 4 lab hours**

ADVISORY: English 1A and Mathematics 103.

Designed for students to complete assigned automobile manufacturers' training modules: Hands-On (HO), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Virtual Classroom Training (VCT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Automotive Technology. Designed to accompany work experience in the trade. (A, CSU)

**58A INDIVIDUALIZED SKILLS TRAINING (IST) CHASSIS SYSTEMS II LABORATORY**

**1 unit, 4 lab hours**

ADVISORY: English 1A.

Designed for students to complete assigned automobile manufacturers' training modules in Advanced Chassis Systems: Hands-On (HO), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Virtual Classroom Training (VCT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Automotive Technology. Designed to accompany work experience in the trade. (A, CSU)

**58B INDIVIDUALIZED SKILLS TRAINING (IST)  
ENGINE/PROPULSION SYSTEMS  
LABORATORY**

**1 unit, 4 lab hours**

ADVISORY: English 1A and Mathematics 103.

Designed for students to complete assigned automobile manufacturers' training modules in Advanced Chassis Systems: Hands-On (HO), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Virtual Classroom Training (VCT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Automotive Technology. Designed to accompany work experience in the trade. (A, CSU)

**58C INDIVIDUALIZED SKILLS TRAINING (IST)  
POWER TRAIN SYSTEMS LABORATORY**

**1 unit, 4 lab hours**

ADVISORY: English 1A and Mathematics 103.

Designed for students to complete assigned automobile manufacturers' training modules in Power Train Systems: Hand-On (HO), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Virtual Classroom Training (VCT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Automotive Technology. Designed to accompany work experience in the trade. (A, CSU)

**61 DIESEL ENGINES**

**4 units, 1.5 lecture hours, 8 lab hours**

PREREQUISITE: Automotive Technology 10. ADVISORY: English 1A and Mathematics 103.

Diesel engine design and operation including diagnosis, failure analysis, and service practices. Designed for students who intend to develop service skills applicable to the diesel technology industry and to accompany work experience in the trade. (A, CSU)

**62 ELECTRICAL/ELECTRONICS FOR DIESEL  
TECHNOLOGY**

**4 units, 1.5 lecture hours, 8 lab hours**

PREREQUISITE: Automotive Technology 10. ADVISORY: English 1A and Mathematics 103.

Electrical theory and operation of the diesel medium-duty/heavy-duty truck electrical components and systems. Testing, diagnosing, and repairing electrical components and systems including truck computer controls using necessary equipment. Designed to accompany work experience in the trade. (A, CSU)

**63 DIESEL FUEL AND EMISSION SYSTEMS**

**4 units, 1.5 lecture hours, 8 lab hours**

PREREQUISITE: Automotive Technology 10. ADVISORY: English 1A and Mathematics 103.

Theory and operation for the different types of diesel technology engine performance and emission control systems. Latest technologies in diesel technology fuel delivery, emission control, and induction systems. Testing, diagnosing, and repairing fuel, emission, glow plug, and CAN network systems. Use of necessary test equipment. Designed to accompany work experience in the trade. (A, CSU)

**64 MD/HD SUSPENSION, STEERING, AND  
ALIGNMENT**

**4 units, 1.5 lecture hours, 8 lab hours**

PREREQUISITE: Automotive Technology 10. ADVISORY: English 1A and Mathematics 103.

Theory and practical application of Medium-duty/Heavy-duty truck, bus, and trailer alignment, steering, and suspension systems. Operating principles, component description, diagnosis, repair, and service adjustments. Designed to accompany work experience in the trade. (A, CSU)

**65 MD/HD POWERTRAIN SYSTEMS**

**6 units, 3 lecture hours, 10 lab hours**

PREREQUISITE: Automotive Technology 10. ADVISORY: English 1A and Mathematics 103.

The principles of diesel technology power train systems: automatic and manual transmissions, clutches, driveaxles, drivelines, and differential systems. Topics include transmission types, powerflow, disassembly, component inspection, reassembly guidelines, air shift systems, troubleshooting procedures, and gear ratio calculations. Maintenance, diagnosis, service, and repair. Designed to accompany work experience in the trade. (A, CSU)

**66 MD/HD BRAKES AND PREVENTATIVE  
MAINTENANCE INSPECTION (PMI)**

**4 units, 1.5 lecture hours, 8 lab hours**

PREREQUISITE: Automotive Technology 10. ADVISORY: English 1A and Mathematics 103.

Complete disassembly and reassembly of various truck braking systems. The fundamentals of operation, wear analysis, preventive maintenance, and major service of truck undercarriages. Operating principles, component description, diagnosis, repair, and service adjustments of heavy-duty transportation and equipment air brake systems. Designed to accompany work experience in the trade. (A, CSU)

**67 MD/HD HEATING, VENTILATION, AIR CONDITIONING AND ADVANCED ELECTRONICS****4 units, 1.5 lecture hours, 8 lab hours**

PREREQUISITE: Automotive Technology 10, Automotive Technology 62, and Automotive Technology 63. ADVISORY: English 1A.

Theory and practice in truck and trailer heating, ventilation, and air-conditioning systems/components. Refrigeration systems, recovery, recycling, charging, leak, and performance testing. Diagnosis, service, and repair of the advance truck/trailer electronics, automatic temperature/ climate control, and other CAN/Computer controlled systems found on today's late model trucks/trailers. Designed to accompany work experience in the trade. (A, CSU)

**68 INDIVIDUALIZED SKILLS TRAINING (IST) TRUCK & BUS CHASSIS SYSTEM I LABORATORY****1 unit, 4 lab hours**

ADVISORY: English 1A and Mathematics 103.

Designed for students to complete assigned truck and bus manufacturers' training modules: Hands-On (HO)/Instructor Led Training (ILT), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Video-Based Training (VBT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Diesel Technology Basic Chassis Systems. Designed to accompany work experience in the trade. (A, CSU)

**68A INDIVIDUALIZED SKILLS TRAINING (IST) TRUCK & BUS CHASSIS SYSTEM II LABORATORY****1 unit, 4 lab hours**

ADVISORY: English 1A and Mathematics 103.

Designed for students to complete assigned truck and bus manufacturers' training modules: Hands-On (HO)/Instructor Led Training (ILT), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Video-Based Training (VBT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Diesel Technology Advanced Chassis Systems. Designed to accompany work experience in the trade. (A, CSU)

**68B INDIVIDUALIZED SKILLS TRAINING (IST) TRUCK & BUS ENGINE/PROPULSION SYSTEMS****1 unit, 4 lab hours**

ADVISORY: English 1A and Mathematics 103.

Designed for students to complete assigned truck and bus manufacturers' training modules: Hands-On (HO)/Instructor Led Training (ILT), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Video-Based Training (VBT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Diesel Technology Engine/Propulsion Systems. Designed to accompany work experience in the trade. (A, CSU)

**68C INDIVIDUALIZED SKILLS TRAINING (IST) TRUCK & BUS POWER TRAIN SYSTEMS LABORATORY****1 unit, 4 lab hours**

ADVISORY: English 1A and Mathematics 103.

Designed for students to complete assigned truck and bus manufacturers' training modules: Hands-On (HO)/Instructor Led Training (ILT), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Video-Based Training (VBT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Diesel Technology Power Train Systems. Designed to accompany work experience in the trade. (A, CSU)

**109L AUTOMOTIVE ESSENTIALS LABORATORY****1 unit, 3 lab hours**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Automotive essential laboratory to include: automotive components, service tools, procedures, and equipment. Designed for the prospective Career Technology Education (CTE) teacher and students needing an exploratory course in the automotive field. (A)

**110A AUTOMOTIVE EXPRESS SERVICE TECHNICIAN****2 units, 1 lecture hour, 3 lab hours**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Apply the principles and applications required to perform the duties of an Express Service Technician at an automotive service facility. Skills and tools required to perform the various tasks of the Express Service Technician will be discussed and practiced in laboratory exercises. Customer satisfaction will be the foremost topic of all work developed by the student. Designed to accompany work experience in the trade. (A)

**110B AUTOMOTIVE SERVICE CONSULTANT****2 units, 1 lecture hour, 3 lab hours**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Apply the basic principles and applications required to perform the duties of an Automobile Service Consultant. Customer relations and customer satisfaction will be the foremost topic of all work developed by the student. Designed to accompany work experience in the trade. (A)

**110C AUTOMOTIVE PARTS SPECIALIST****2 units, 1 lecture hour, 3 lab hours**

PREREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Apply the basic principles and applications required to perform the duties of an Automobile Parts Specialist. Customer relations will be the foremost topic of all work developed by the student. Designed to accompany work experience in the trade. (A)

**161 BAR SPECIFIED DIAGNOSIS AND REPAIR TRAINING****3 units, 2 lecture hours, 3 lab hours, (Formerly Automotive Technology 61 and 261)**

PREREQUISITE: Automotive Technology 52 or 53, or 9 semester units, 13 quarter units, or 180 hours of instruction at a ASE Education Foundation certified and/or bureau-recognized college or trade school in the areas of electrical and engine performance. ADVISORY: English 1A and Mathematics 103.

Introduction to Smog Check Program diagnosis and repair procedures; engine theory, engine performance, and electrical systems; automotive computer control system operations; on-vehicle diagnosing and repair mandated by the Bureau of Automotive Repair. The training provides students with comprehensive knowledge related to the diagnosis and repair of Smog Check failures. (A)

**161A LEVEL 1 – ENGINE AND EMISSION CONTROL FUNDAMENTALS****3 units, 2 lecture hours, 3 lab hours, (Formerly Automotive Technology 61, 61A and 261A)**

PREREQUISITE: Automotive Technology 52 and 53, or 161, or 10 semester units, 13 quarter units, or 180 hours of instruction at an ASE Education Foundation certified and/or bureau-recognized college or trade school in the areas of electrical and engine performance. ADVISORY: English 1A and Mathematics 103.

Designed to prepare students for the Bureau of Automotive Repair Smog Check Licensing Exam. Level 1 Training provides students with basic knowledge of engine and emission controls needed to move forward with Level 2 Smog Procedures Training. Smog check rules and regulations covered in detail. Introduction to Smog Check Program inspection procedures and policies mandated by the Bureau of Automotive Repair. Those who do not meet prerequisites/automotive experience are allowed to take this course but will not be certified as eligible to take the licensing examination. (A)

**161B LEVEL 2 – SMOG CHECK PROCEDURES TRAINING****1.5 units, 1.5 lecture hours, 1 lab hours, (Formerly Automotive Technology 61B and 261B)**

PREREQUISITE: Automotive Technology 161A. ADVISORY: English 1A and Mathematics 103.

Prepares students/technicians for the Bureau of Automotive Repair (BAR) Enhanced Area emission testing procedures and guidelines. This training provides students the procedural knowledge, skills, and abilities needed to perform Smog Check inspections. Students who complete and pass this training will have met the Bureau's training requirements to qualify to take the Smog Check Inspector state licensing examination. Introduction to on-vehicle diagnosing and repair mandated by the Bureau of Automotive Repair. Those who do not meet the prerequisite are allowed to take this course but will not be certified as eligible to take the (BAR) licensing examination. (A)

**161C BAR UPDATE TRAINING****0.5 unit, 4 lecture hours, 4 lab hours, (2 weeks), (Formerly Automotive Technology 261C)**

PREREQUISITE: Automotive Technology 161B. ADVISORY: English 1A and Mathematics 103.

Prepares students/technicians for new Bureau of Automotive Repair (BAR) procedures and guidelines Smog Check technicians must follow when performing emission inspections and certifying vehicles in the Basic and Enhanced Smog Check Program areas. Those who do not meet the prerequisite are allowed to take this course but will not be certified as eligible to take the (BAR) licensing examination and/or granted renewal of applicable license. (Note: Enhanced Area Technician training program certified). (A)

**162A BEGINNING PERFORMANCE TUNING****3 units, 2.5 lecture hours, 2 lab hours**

PREREQUISITE: Automotive Technology 161B. ADVISORY: English 1A and Mathematics 103.

This beginning tuning course is designed for tuning with Stage 1 custom designed Tuning Checklists and Tuning Software. Emphasis will be focusing on three types of car combinations: bolt-on's, heads/cam combos, and forced induction (turbochargers/superchargers/nitrous). (A)

**162B ADVANCED PERFORMANCE TUNING****3 units, 2.5 lecture hours, 2 lab hours**

PREREQUISITE: Automotive Technology 162A. ADVISORY: English 1A and Mathematics 103.

This advanced tuning course is designed for tuning with Stage 2 and/or 3 custom designed Tuning Checklists and Tuning Software. Emphasis will be focusing on three types of advanced modifications: heads/cam combos, internal engine components, and forced induction (turbocharges/supercharges/nitrous). Advanced power tuning with MAF, Speed Density, and BAR systems will also be covered. (A)

**170A INTRODUCTION TO HYBRID ELECTRICAL VEHICLES (HEVS)****2 units, 2 lecture hours, 1 lab hour**

PREREQUISITE: Automotive Technology/Automotive Technology GM 57. ADVISORY: English 1A and Mathematics 103.

This course is designed to familiarize the construction, theory, and operation of the Hybrid Electric Vehicle (HEV). Includes high voltage safety, engines, electric motors, power inverters, DC to DC converters, battery construction and technologies, regenerative braking, and HVAC systems. (A)

**170B SERVICE AND MAINTENANCE TO HYBRID ELECTRICAL VEHICLES (HEVS)****2 units, 1 lecture hour, 3 lab hours**

PREREQUISITE: Automotive Technology 170A. ADVISORY: English 1A and Mathematics 103.

This course is designed to familiarize with the hybrid safety, hybrid transmissions, parallel/series, electric motors, batteries, control module units, hybrid internal combustion engines (ICE), power inverter systems, AC induction electric motors, and permanent magnet electric motors theory and construction. Inspection, maintenance, and service procedures on Hybrid Electric Vehicle (HEVs) systems will be emphasized. (A)

**170C DIAGNOSIS AND REPAIR TO HYBRID ELECTRIC VEHICLES (HEVS)****2 units, 1 lecture hour, 3 lab hours**

PREREQUISITE: Automotive Technology 170B. ADVISORY: English 1A and Mathematics 103.

This course is designed to familiarize with hybrid safety, hybrid transmissions, parallel/series, electric motor failure diagnosis, battery failure diagnosis, control module failure diagnosis, battery reconditioning and rebuilding review, hybrid internal combustion engines (ICE), power inverter system, AC induction electric motors, and permanent magnet electric motors. This course will emphasize diagnosis and repairs to Hybrid Electric Vehicles (HEVs). (A)

**171A INTRODUCTION TO ALTERNATIVE FUELED VEHICLES (AFVS)****2 units, 2 lecture hours, 1 lab hour**

PREREQUISITE: Automotive Technology 170C. ADVISORY: English 1A and Mathematics 103.

This is an introductory course on Alternative Fueled Vehicles (AFVs). Various alternative fuels will be compared, such as Ethanol, Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG), Liquefied Petroleum Gas (LPG) and Clean Diesel. The theory of operation, system components, and safe handling of these fuels are included. (A)

**171B SERVICE AND MAINTENANCE TO ALTERNATIVE FUELED VEHICLES (AFVS)****2 units, 1 lecture hour, 3 lab hours**

PREREQUISITE: Automotive Technology 171A. ADVISORY: English 1A and Mathematics 103.

This course is designed to familiarize with the hybrid safety, hybrid transmissions, parallel/series, electric motors, batteries, control module units, hybrid internal combustion engines (ICE), power inverter systems, AC induction electric motors, and permanent magnet electric motors theory and construction. Inspection, maintenance, and service procedures on Hybrid Electric Vehicle (HEVs) systems will be emphasized. (A)

**171C DIAGNOSIS AND REPAIR TO ALTERNATIVE FUELED VEHICLES (AFVS)****2 units, 1 lecture hour, 3 lab hours**

PREREQUISITE: Automotive Technology 171B. ADVISORY: English 1A and Mathematics 103.

This course is designed to familiarize with diagnosis and repair on Alternative Fueled Vehicles (AFVs). Emphasis will be placed on Ethanol, Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG), Liquefied Petroleum Gas (LPG) and Clean Diesel type fuel systems. (A)

**173 MAINTENANCE AND LIGHT REPAIR – CHASSIS SYSTEMS****8 units, 4 lecture hours, 12 lab hours**

PREREQUISITE: None.

Basic skills and training in Maintenance and Light Repair for Chassis Systems needed to earn an entry-level position at an automotive maintenance repair facility. Prepare students to pass the Automotive Service Excellence Maintenance and Light Repair Certification (ASE G1) test. (A)

**174 MAINTENANCE AND LIGHT REPAIR – POWERTRAIN SYSTEMS****8 units, 4 lecture hours, 12 lab hours**

PREREQUISITE: None.

Basic skills and training in Maintenance and Light Repair for Powertrain Systems needed to earn an entry-level position at an automotive maintenance repair facility. Prepare students to pass the Automotive Service Excellence Maintenance and Light Repair Certification (ASE G1) test. (A)

**281A AUTOMOTIVE POWER TRAINS I****3 units, 3 lecture hours, (Formerly****Automotive Technology 81A)**

PREREQUISITE: Automotive Technology 9 or National Institute for Automotive Service Excellence (ASE) current certifications or OEM (Original Manufacture Equipment) certifications or equivalent. ADVISORY: English 1A and Mathematics 103.

The principles of automotive power train systems: automotive transmissions, drivelines, and differentials. Diagnosis and service methods.

**281B AUTOMOTIVE POWER TRAINS II****3 units, 3 lecture hours, (Formerly****Automotive Technology 81B)**

PREREQUISITE: Automotive Technology 9 or National Institute for Automotive Service Excellence (ASE) current certifications or OEM (Original Manufacture Equipment) certifications or equivalent. ADVISORY: English 1A and Mathematics 103.

The principles of automotive power train systems: automatic transaxles, driveaxles, and transfer cases. Diagnosis, service, and repair procedures.

**282A SUSPENSION AND WHEEL ALIGNMENT****3 units, 3 lecture hours, (Formerly****Automotive Technology 82A)**

PREREQUISITE: Automotive Technology 9 or National Institute for Automotive Service Excellence (ASE) current certifications or OEM (Original Manufacture Equipment) certifications or equivalent. ADVISORY: English 1A and Mathematics 103.

Theory of basic 4-wheel alignment and suspension systems. Operating principles, component description, diagnosis, and service adjustment spec.

**282B AUTOMOTIVE BRAKING SYSTEMS****3 units, 3 lecture hours, (Formerly****Automotive Technology 82B)**

PREREQUISITE: Automotive Technology 9 or National Institute for Automotive Service Excellence (ASE) current certifications or OEM (Original Manufacture Equipment) certifications or equivalent. ADVISORY: English 1A and Mathematics 103.

Discuss complete disassembly and reassembly of various automotive braking systems. Operating principles, component description, diagnosis, repair, and service adjustments.

**283A ENGINE PERFORMANCE AND DIAGNOSIS****3 units, 3 lecture hours, (Formerly****Automotive Technology 83A)**

PREREQUISITE: Automotive Technology 9 or National Institute for Automotive Service Excellence (ASE) current certifications or OEM (Original Manufacture Equipment) certifications or equivalent. ADVISORY: English 1A and Mathematics 103.

Latest technologies in automotive fuel delivery, emission control, and ignition systems. Diagnosis fuel, emission ignition systems. Introduction of diesel theory, application, and operation. Use of necessary test equipment.

**283B ELECTRICAL SYSTEMS****3 units, 3 lecture hours, (Formerly****Automotive Technology 83B)**

PREREQUISITE: Automotive Technology 9 or National Institute for Automotive Service Excellence (ASE) current certifications or OEM (Original Manufacture Equipment) certifications or equivalent. ADVISORY: English 1A and Mathematics 103.

Basic electrical theory of the automotive electrical components and systems. Diagnosing electrical components and systems including automotive computer controls using necessary equipment.

**284 AUTOMOTIVE AIR CONDITIONING****3 units, 3 lecture hours, (Formerly****Automotive Technology 84)**

PREREQUISITE: Automotive Technology 9 or National Institute for Automotive Service Excellence (ASE) current certifications or OEM (Original Manufacture Equipment) certifications or equivalent. ADVISORY: English 1A and Mathematics 103.

Theory in automotive heating, ventilation, and air conditioning systems/components. R-12 and R-134A refrigeration systems, recovery, recycling, charging, leak, and performance testing. Discuss the diagnosis, service, and repair of automatic temperature/climate control.



**285 AUTOMOTIVE ENGINES**

**3 units, 3 lecture hours, (Formerly Automotive Technology 85)**

PREREQUISITE: Automotive Technology 9 National Institute for Automotive Service Excellence (ASE) current certifications or OEM (Original Manufacture Equipment) certifications or equivalent. ADVISORY: English 1A and Mathematics 103.

Engine design and operation including diagnosis, failure analysis, and service practices.

**292 ASE CERTIFICATION PREPARATION**

**2 units, 2 lecture hours, (Formerly Automotive Technology 92)**

PREREQUISITE: Automotive Technology 9 or equivalent. ADVISORY: English 1A and Mathematics 103.

Preparation for the National Institute for Automotive Service Excellence (ASE) Certifications in the following areas: Engine Repair (A1), Automatic Transmission/Transaxle (A2), Manual Drive Train and Axles (A3), Suspension and Steering (A4), Brakes (A5), Electrical/Electronic Systems (A6), Heating and Air Conditioning (A7), and Engine Performance (A8).

**294 BRAKE AND LAMP ADJUSTMENT/CERTIFICATION PREPARATION**

**2 units, 2 lecture hours, 0.5 lab hours, (Formerly Automotive Technology 94)**

PREREQUISITE: Automotive Technology 9 or equivalent. ADVISORY: English 1A and Mathematics 103.

Preparation for the State of California Automotive Technician Brake and Lamp Adjustment/Certification examination.

**373 FORK LIFT SAFETY AND OPERATION**

**1 lecture hour, 3 lab hours, (20 weeks), (Repeats = 3), (Pass/No Pass)**

PREREQUISITE: None.

Practical and theoretical training in the operation of forklift and pallet jack and how it works. Student receive training while driving on a planned course, loading and unloading commercial vehicles and load securement, with a continuous emphasis on safe driving and operation. Students also develop their skills in minor maintenance for good pre-trip and post-trip inspection.

**374 STATE LAWS AND FEDERAL REGULATIONS**

**1 lecture hour, (20 weeks), (Repeats = 3), (Pass/No Pass)**

PREREQUISITE: None.

Provide students with an understanding of California and federal motor vehicle traffic laws, highway traffic regulations, and driver's license laws needed to understand and demonstrate the ability to drive in accordance with laws and regulations.

**375 SAFE OPERATION FUNDAMENTALS**

**6 lab hours, (20 weeks), (Repeats = 3), (Pass/No Pass)**

PREREQUISITE: None.

Provide practical and theoretical instruction in the techniques needed to drive defensively and prevent accidents in spite of the incorrect actions of others and adverse conditions. Students are prepared to recognize and perform first aid treatment in dealing with major emergencies, both medical and accidental. The course also explains and demonstrates safe practices in using and selecting proper tools for the job, both in the shop and on the road.

**376 OPERATIONS OF COMMERCIAL VEHICLES I**

**1 lecture hour, 6 lab hours, (20 weeks), (Repeats = 3), (Pass/No Pass)**

PREREQUISITE: None.

Provide practical and theoretical knowledge in the operation of two- and three-axle tractor trailer combinations on a driving range and highway. Student will develop the hand, eye, and foot coordination for shifting a 10-speed dual-range transmission. Additionally students will be oriented in California state laws pertaining to a commercial motor vehicle, which prepares them for the CDL Skills and Knowledge Test for the Class A license.

**377 OPERATIONS OF COMMERCIAL VEHICLES II**

**9 lab hours, (20 weeks), (Repeats = 3), (Pass/No Pass)**

PREREQUISITE: Automotive Technology 376.

Provide practical and theoretical knowledge in the operation of five-axle commercial vehicles with a GVWR of 80,000 lbs. and lengths over 65 feet, including single and double trailers. Students will learn to operate various types of dual-range transmissions on the driving range and in real-life city and highway traffic. Students will receive 2,000 – 2,500 miles of road experience with empty and loaded trailers.

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**AUTOMOTIVE TECHNOLOGY: GENERAL MOTORS ASEP PROGRAM (ATGM)**


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**51 PRINCIPLES OF ENGINE THEORY AND SERVICE**

**4 units, 1.5 lecture hours, 8 lab hours, (See also Automotive Technology 51)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Engine design and operation including diagnosis, failure analysis, and service practices. Designed to accompany work experience in the trade. (A, CSU)

**52 AUTOMOTIVE ELECTRICAL SYSTEMS**  
**4 units, 1.5 lecture hours, 8 lab hours,**  
**(See also Automotive Technology 52),**  
**(Formerly Automotive Technology**  
**General Motors 32)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103

Basic electrical theory and operation of the automotive electrical components and systems. Testing, diagnosing, and repairing electrical components and systems including automotive computer controls using necessary equipment. Designed to accompany work experience in the trade. (A, CSU)

**53 ENGINE PERFORMANCE**  
**4 units, 1.5 lecture hours, 8 lab hours,**  
**(See also Automotive Technology 53),**  
**(Formerly Automotive Technology**  
**General Motors 32)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Engine theory and construction related to engine performance. History and theory of operation for the different types of automotive systems. Latest technologies in automotive fuel delivery, emission control, and ignition systems. Testing, diagnosing, and repairing fuel, emission, and ignition systems. Use of necessary test equipment. Designed to accompany work experience in the trade. (A, CSU)

**54 SUSPENSION, STEERING, AND WHEEL ALIGNMENT**  
**4 units, 1.5 lecture hours, 8 lab hours,**  
**(See also Automotive Technology 54),**  
**(Formerly Automotive Technology**  
**General Motors 31)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Theory and practical application of basic 4-wheel alignment, steering, and suspension systems. Operating principles, component description, diagnosis, repair, and service adjustments. Designed to accompany work experience in the trade. (A, CSU)

**55 POWER TRAINS: TRANSMISSIONS/ TRANSAXLES, DIFFERENTIALS, AND DRIVEAXLES**

**6 units, 3 lecture hours, 10 lab hours,**  
**(See also Automotive Technology 55),**  
**(Formerly Automotive Technology**  
**General Motors 36)**

COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

The principles of automotive power train systems: automatic and manual transmissions/transaxles, transfer cases, clutch assemblies, driveaxles, drivelines, and differentials. Diagnosis, service, and repair. Designed to accompany work experience in the trade. (A, CSU)

**56 AUTOMOTIVE BRAKING SYSTEMS**  
**4 units, 1.5 lecture hours, 8 lab hours,**  
**(See also Automotive Technology 56)**

Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Complete disassembly and reassembly of various automotive braking systems. Operating principles, component description, diagnosis, repair, and service adjustments. Designed to accompany work experience in the trade. (A, CSU)

**57 AUTOMOTIVE HEATING, VENTILATION, AIR CONDITIONING, AND ADVANCED ELECTRONICS**

**4 units, 1.5 lecture hours, 8 lab hours,**  
**(See also Automotive Technology 57),**  
**(Formerly Automotive Technology General**  
**Motors 34)**

PREREQUISITE: Automotive Technology/Automotive Technology GM 52 and 53 or equivalent. COREQUISITE: Automotive Technology 9. ADVISORY: English 1A and Mathematics 103.

Theory and practice in automotive heating, ventilation, and air conditioning systems/components. R-12, R-134A, and R-1234yf refrigeration systems, recovery, recycling, charging, leak, and performance testing. Diagnosis, service, and repair of the advance automotive electronics, automatic temperature/ climate control, and other computer controlled systems found on today's late model vehicles. (A, CSU)

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## BIOLOGY (BIOL)

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**3 INTRODUCTION TO LIFE SCIENCE**  
**4 units, 3 lecture hours, 2 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Introductory course exploring biological concepts as they relate to organismal structure and function, inheritance, ecology, and evolution. Recommended for non-biological science majors and liberal studies majors. Field trips required. (A, CSU-GE, UC, I)

**4 PRINCIPLES OF ZOOLOGY**

**5 units, 4 lecture hours, 3 lab hours,  
(Formerly Zoology 1)**

PREREQUISITE: Mathematics 103 and Biology 11A. Completion within the last five years recommended. ADVISORY: Eligibility for English 1A recommended.

Animal forms using the evolutionary approach including morphology, physiology, and ecology relative to the major phyla. Field trips required. (C-ID BIOL 130S = BIOL 4 + BIOL 6) (A, CSU-GE, UC, I)

**5 HUMAN BIOLOGY**

**4 units, 3 lecture hours, 2 lab hours**

ADVISORY: Eligibility for English 1A and Mathematics 201 recommended.

An overview of the cellular, molecular, genetic, and systems basis of life with an emphasis on the human body. For allied health majors. Fulfills prerequisites for Biology 20, 21A and 31. (A, CSU-GE, UC, I)

**6 PRINCIPLES OF BOTANY**

**5 units, 4 lecture hours, 3 lab hours,  
(Formerly Botany 1)**

PREREQUISITE: Mathematics 103 and Biology 11A. Completion within the last five years recommended. ADVISORY: Eligibility for English 1A recommended.

Morphological, physiological, ecological, genetic, and taxonomic relationships with emphasis on seed plants. Field trips required. (C-ID BIOL 130S = BIOL 6 + BIOL 4) (A, CSU-GE, UC, I)

**7 FIELD BIOLOGY**

**5 units, 3 lecture hours, 6 lab hours,  
(Spring)**

PREREQUISITE: Biology 3 or 11A with a grade of "C" or better. Completion within the last five years recommended. ADVISORY: Eligibility for English 1A recommended.

Investigation of plants, animals, and fungi emphasizing natural history, taxonomy, and ecology of local species and methods of field based ecological investigation. Weekly required field trips with easy to moderate hiking and a multi-day field trip to the Pacific coast are included in this course. (A, CSU-GE, UC)

**11A BIOLOGY FOR SCIENCE MAJORS I**

**5 units, 4 lecture hours, 3 lab hours**

PREREQUISITE: Mathematics 103 within the last five years recommended. ADVISORY: English 1A.

One of two general biology courses for majors: the chemistry of life, cellular structure, cellular metabolism including photosynthesis, aerobic and anaerobic respiration, cellular communication, cellular division and its regulation, Mendelian genetics, molecular genetics, biotechnology, and evolution. Intended for science majors and pre-medical, pre-veterinarian, pre-dental, pre-optometry, and pre-pharmacy majors. (C-ID BIOL 190) (A, CSU-GE, UC, I)

**11B BIOLOGY FOR SCIENCE MAJORS II**

**5 units, 4 lecture hours, 3 lab hours**

PREREQUISITE: Biology 11A and Mathematics 103 taken within the last five years recommended.

One of two general biology courses for majors: evolution, speciation, the evolutionary history of biodiversity, plant structure and function, animal structure and function, and ecology. Intended for science majors and for pre-medical, pre-veterinary, pre-dental, pre-optometry, and pre-pharmacy majors. Field trips required. (C-ID BIOL 140) (A, CSU-GE, UC, I)

**14 CONSERVATION BIOLOGY**

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Introductory course in conservation biology. An exploration of phenomena influencing Earth's biological diversity with an emphasis on ecological principles and human impacts. A focus on natural resource use, management and future challenges for a growing human population. (A, CSU-GE, UC, I)

**20 HUMAN ANATOMY**

**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Biology 5 or 11A, completion within the last year recommended. ADVISORY: Eligibility for English 1A recommended.

A foundation course in Human Anatomy. A systems-based approach, examining the gross and microscopic structures of the human body. Fulfills the anatomy requirement for many nursing and other health-related programs. (C-ID BIOL 110B) (A, CSU-GE, UC, I)

**21A HUMAN ANATOMY & PHYSIOLOGY I**

**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Biology 5 or 11A. ANTI-REQUISITE: Biology 22. ADVISORY: English 1A.

The first class in a two semester human anatomy and physiology sequence. Biology 21A and 21B are designed to prepare students planning careers in healthcare including nursing. Not open to students with credit in both Biology 20 and Biology 22. (C-ID BIOL 115S = BIOL 21A + 21B) (A, CSU-GE, UC, I)

**21B HUMAN ANATOMY & PHYSIOLOGY II**

**5 units, 4 lecture hours, 3 lab hours**

PREREQUISITE: Biology 21A and Chemistry 3A. ADVISORY: English 1A.

The second class in the semester anatomy and physiology sequence. Biology 21A and 21B are designed to prepare students planning careers in healthcare, including nursing. (C-ID BIOL 115S = BIOL 21A + 21B) (A, CSU-GE, UC, I)

**22 HUMAN PHYSIOLOGY****5 units, 4 lecture hours, 3 lab hours**

PREREQUISITE: Biology 20 and Chemistry 3A, completion within the last year recommended. ADVISORY: English 1A.

An examination of the functional relationships of the human body at the system, organ, and cellular levels, utilizing homeostasis as a unifying theme. Fulfills the physiology requirement for many nursing and other health-related programs. (C-ID BIOL 120B) (A, CSU-GE, UC, I)

**31 MICROBIOLOGY****5 units, 3 lecture hours, 5 lab hours**

PREREQUISITE: Biology 5 or 11A or equivalent and Chemistry 3A or equivalent, each with a grade "C" or better. Completion within the last five years recommended. ADVISORY: English 1A.

Classification, morphology, identification, physiology, genetics, host microbe interactions related to disease and industrial uses of microorganisms. Field trips may be required. (A, CSU-GE, UC, I)

**46 ELEMENTARY HORTICULTURE****4 units, 3 lecture hours, 2 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Growth and care of ornamental and vegetable plants including plant anatomy, general maintenance, weeds, pests, diseases, fertilizers, soils, pruning, and training. (A, CSU)

**47 TOPICS IN BIOLOGY****1-3 units, 1-3 lecture hours, 0-3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Current topics of biological importance and concern outside the regular biology curriculum or topics that will be covered in greater depth than in a regularly offered course. (A, CSU)

**55 INTRODUCTION TO THE BIOLOGY OF HUMANS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

An introductory human biology class without a laboratory. Designed for students planning to enter medical coding or HIT programs. Not an acceptable prerequisite for Biology 20 or Biology 21A. (A, CSU-GE, UC, I)

**222 BIOLOGY SKILLS****1 unit, 2 lecture hours, (9 weeks), (Pass/No Pass)**

ADVISORY: Eligibility for English 125 and 126 or English for Multi-Lingual Students 67 and 68 and Mathematics 201 recommended.

An introductory class for students seeking to develop foundation skills in biological science.

**BODY AND FENDER**

SEE AUTOMOTIVE COLLISION REPAIR TECHNOLOGY

**BOTANY**

SEE BIOLOGY

**BUILDING TECHNOLOGY**

SEE ARCHITECTURE OR CONSTRUCTION

**BUSINESS ADMINISTRATION (BA)****5 WORKPLACE COMMUNICATION****3 units, 3 lecture hours, (See also Business & Technology 5)**

PREREQUISITE: None.

Professional workplace communication including written, oral, and presentation fundamentals with emphasis on organization, correctness, completeness, conciseness, and tone. Cross-listed with BT-5. (A, CSU)

**10 INTRODUCTION TO BUSINESS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

A multidisciplinary survey of the U.S. business environment including the examination, analysis, reasoning, advocacy, and critique of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy, practices, and ability to achieve its goals. Demonstrates how these influences impact key areas of business including: organizational structure and design; management; marketing; organizational communication; technology; and financial practices. (C-ID BUS 110) (A, CSU, UC)

**18 BUSINESS AND THE LEGAL ENVIRONMENT****4 units, 4 lecture hours, (Formerly Business Administration 18A)**

ADVISORY: Business Administration 10 and eligibility for English 1A recommended.

Law and the legal system: administrative, tort, criminal, contracts, agency, labor and employment, and international business law. Case studies utilized. (C-ID BUS 120) (A, CSU, UC)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL**

**1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to business administration. Collaborative learning objectives established specific to business administration. Seventy-five hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**20 LAW AND THE LEGAL SYSTEM  
3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

What every educated citizen should know about law as a social process and about American law and legal institutions. The historical origins of law as well as the role law plays in modern western and non-western societies. Institutional sources of law; legal reasoning; judicial decision making and remedies; an overview of the civil and criminal litigation process; administrative law and procedure; alternative dispute resolution mechanisms; ethics and the legal system. (A, CSU-GE, UC)

**24 NEGOTIATIONS**

**1.5 units, 1.5 lecture hours**

ADVISORY: Business Administration 10 and eligibility for English 1A recommended.

Negotiations in real-life professional and personal situations. Theory of negotiation as practiced in a variety of settings including; preparing, measuring, conduction and debriefing individual and group negotiations. (A, CSU)

**25 INTERNATIONAL BUSINESS — AN INTRODUCTION**

**3 units, 3 lecture hours**

ADVISORY: Business Administration 10 and eligibility for English 1A recommended.

A study of the theory and practice of global business. Within the context of a multinational business a study of the functional areas of production, marketing, finance, human resource management, accounting, technology, legal issues and the impact of culture on the business practices.(A, CSU)

**27 ENTREPRENEURSHIP STARTUP LAB**

**1-3 units: 1 unit, 1 lecture hour, 1 lab hour;  
2 units, 1 lecture hour, 3 lab hours; 3 units,  
1 lecture hour, 6 lab hours**

ADVISORY: Eligibility for English 1A recommended.

A hands-on course for students that have entrepreneurial ideas, but need the tools and knowledge necessary for startup development, prototyping, launch and sustainability. Business leadership training, experience, knowledge and practical experience in entrepreneurship and business. (A, CSU)

**28 E-LAW AND ETHICS**

**3 units, 3 lecture hours**

ADVISORY: Computer Information Technology 15. Eligibility for English1A recommended.

An introduction to the legal and ethical issues involving technology and the use of the Internet. (A, CSU)

**30 PERSONAL FINANCE**

**3 units, 3 lecture hours**

ADVISORY: Business Administration 10. Eligibility for English 1A recommended. Eligibility for Mathematics 201 recommended.

Examines personal financial management from an economic and behavioral perspective. Emphasis on the life-long impact financial decisions have on individuals, families and society. Topics include time value of money, opportunity cost and marginal analysis; tax strategies; financial planning strategies; financial monitoring and reporting; money & credit management; purchasing strategies and large asset acquisition; risk management through home, health, auto and disability insurance; saving and investing; and retirement and estate planning. (A, CSU, UC)

**31 HUMAN RESOURCE MANAGEMENT**

**3 units, 3 lecture hours**

ADVISORY: Business Administration 10 and eligibility for English 1A recommended.

Examines major functions of human resource management including planning, recruitment, selection, training and development, evaluation, compensation, labor relations, and motivation. (A, CSU)

**33 HUMAN RELATIONS IN THE WORKPLACE**

**3 units, 3 lecture hours**

ADVISORY: Business Administration 10 and eligibility for English 1A recommended.

Multidisciplinary examination of how society, economics, and human behavior are inextricably interwoven into the American work environment. An emphasis on employee interaction with coworkers, clients, supervisors/managers, and their effect on the total organization. Emphasis on communication, societal and cultural differences, conflict resolution, ethics and politics, career selection and entry, inter-personal relations, motivation, leadership, attitude, and group dynamics. (A, CSU)

- 34 FUNDAMENTALS OF INVESTING**  
**3 units, 3 lecture hours**  
 ADVISORY: Business Administration 10 and 30 recommended. Eligibility for English 1A recommended. Eligibility Mathematics 201 recommended.  
 Study of basic investment theory and practice including security valuation. Includes strategies for investments in government securities, corporate bonds, stocks, mutual funds and basic derivatives. (A, CSU)
- 35 FINANCIAL MANAGEMENT FOR ENTREPRENEURS AND SMALL BUSINESS**  
**3 units, 3 lecture hours**  
 ADVISORY: Business Administration 10 and eligibility for English 1A and Mathematics 201 recommended.  
 Basic financial decision-making for business owners, entrepreneurs and financial managers. Financial statement analysis, working capital management, capital budgeting, time value of money, sources of funding, and financial markets and institutions. (A, CSU)
- 38 OPERATION OF THE SMALL BUSINESS**  
**3 units, 3 lecture hours**  
 ADVISORY: Business Administration 52 or equivalent experience creating, operating, or managing a startup or established business.  
 A systematic approach to developing and managing a small business including the development of a formal, comprehensive business plan. Emphasis on discussions and practical exercises to develop expertise in the operations, marketing, human resource utilization, and financing of the small business venture. (A, CSU)
- 40 SUPERVISION AND LEADERSHIP**  
**3 units, 3 lecture hours, (Formerly Business Administration 39)**  
 ADVISORY: Business Administration 10 and eligibility for English 1A recommended.  
 Focus on first-level (operational) supervision. Emphasis on planning, organizing, staffing, leading, and controlling. (A, CSU)
- 43 PRINCIPLES OF MANAGEMENT**  
**3 units, 3 lecture hours**  
 ADVISORY: Business Administration 10 and eligibility for English 1A recommended.  
 In-depth study of the primary management functions including: strategic and tactical planning; decision-making; organizational design and systems; leadership, motivation and communication; and control systems. (A, CSU)
- 49 BUSINESS PROTOCOL FOR ENTREPRENEURS**  
**2 units, 2 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Provides skill building application of business protocol required for entrepreneurs and those involved in business start-ups. (A, CSU)
- 50 BUSINESS CONCEPTS**  
**2 units, 2 lecture hours, (Formerly Business Administration 9)**  
 ADVISORY: Eligibility for English 1A recommended.  
 A study of business basics for entrepreneurs. Topics include marketing, finance, strategic planning, personnel management, basic macroeconomic principles and an assessment of entrepreneurial readiness. Primarily for nonbusiness majors or those just beginning the study of business but interested in entrepreneurship. (A, CSU)
- 51 BUSINESS PLANNING AND NEW VENTURE LAUNCH**  
**1.5 units, 1.5 lecture hours**  
 ADVISORY: Business Administration 10 and eligibility for English 1A recommended.  
 Business Plan development. Review of resources available to assist entrepreneurs in developing and launching a business including sources of funding. (A, CSU)
- 52 INTRODUCTION TO ENTREPRENEURSHIP**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A and Mathematics 201 recommended.  
 Develops an understanding of the complex tasks faced by individuals engaged in entrepreneurial activities. Identifies the methods for developing a business idea, the process of starting a business, how to acquire resources, and the key parts of a business plan. (A, CSU)
- 101 BASIC PROFESSIONAL AND CIVIC BEHAVIORS**  
**0.25 unit, 0.27 lecture hour, (Pass/No Pass)**  
 PREREQUISITE: None.  
 Introduces basic mindsets, life, and work skills necessary for professional success and civic engagement. (A)
- 102 INTERMEDIATE PROFESSIONAL AND CIVIC BEHAVIORS**  
**0.25 unit, 0.27 lecture hour, (Pass/No Pass)**  
 PREREQUISITE: Business Administration 101.  
 Introduces intermediate mindsets, life, and work skills necessary for professional success and civic engagement. (A)

**103 ADVANCED PROFESSIONAL AND CIVIC BEHAVIORS**

**0.25 unit, 0.27 lecture hour, (Pass/No Pass)**

PREREQUISITE: Business Administration 101 and 102.

Advanced exploration of mindsets, life, and work skills required for target career and civic engagement. (A)

**104 APPLIED PROFESSIONAL AND CIVIC BEHAVIORS**

**0.25 unit, 0.27 lecture hour, (Pass/No Pass)**

PREREQUISITE: Business Administration 101, 102, and 103.

Creation of action plans that integrate life skills, work skills, and mindsets into targeted career and specific civic engagement project. (A)

**310 INTRODUCTION TO BUSINESS**

**3 lecture hours, (Repeats = 3), (Pass/No Pass)**

ADVISORY: Eligibility for English 1A recommended.

A multidisciplinary survey of the U.S. business environment including the examination, analysis, reasoning, advocacy, and critique of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy, practices, and ability to achieve its goals. Demonstrates how these influences impact key areas of business including: organizational structure and design; management; marketing; organizational communication; technology; and financial practices.

**333 HUMAN RELATIONS IN THE WORKPLACE**

**3 lecture hours, (Repeats = 3), (Pass/No Pass)**

ADVISORY: Business Administration 10 and eligibility for English 1A recommended.

Multidisciplinary examination of how society, economics, and human behavior are inextricably interwoven into the American work environment. An emphasis on employee interaction with coworkers, clients, supervisors/managers, and their effect on the total organization. Emphasis on communication, societal and cultural differences, conflict resolution, ethics and politics, career selection and entry, inter-personal relations, motivation, leadership, attitude, and group dynamics.

**351 BUSINESS PLANNING AND NEW VENTURE LAUNCH**

**1.5 lecture hours, (Repeats = 2), (Pass/No Pass)**

ADVISORY: Business Administration 10.

Business Plan development. Review of resources available to assist entrepreneurs in developing and launching a business including sources of funding.

**BUSINESS & TECHNOLOGY (BT)**

**1 COMPUTER DOCUMENT PROCESSING I  
3 units, 2 lecture hours, 3 lab hours,  
(Formerly BSS 1A and Business  
Information Processing 1)**

PREREQUISITE: None.

Producing basic correspondence, letters, memos, tables, and reports, using current word processing program, developing keyboarding speed and accuracy, and typing by touch. (A, CSU)

**2 COMPUTER DOCUMENT PROCESSING II  
3 units, 2 lecture hours, 3 lab hours,  
(Formerly Business Information  
Processing 2)**

PREREQUISITE: Business & Technology 1 or equivalent.

Producing and formatting specialized correspondence, letters, memos, reports, tables, and business forms using a current word processing program. Building typing speed and accuracy. (A, CSU)

**5 WORKPLACE COMMUNICATION  
3 units, 3 lecture hours, (See also Business  
Administration 5), (Formerly BSS 5 and  
Business General Office 5)**

PREREQUISITE: None.

Professional workplace communication including written, oral, and presentation fundamentals with emphasis on organization, correctness, completeness, conciseness, and tone. Cross-listed with BA-5. (A, CSU)

**6 RECORDS MANAGEMENT  
3 units, 3 lecture hours, 1 lab hour,  
(Formerly Business Information Processing  
10 and Business & Technology 10)**

ADVISORY: Business & Technology 106 or equivalent.

An introduction to filing methods and principles for all Business & Technology majors and employees in the business community. Internationally applied rules of records management for manual and computerized systems used to create and maintain filing systems. Mastery of alphabetic, geographic, numeric and subject filing. (A, CSU)

- 9 COMPUTER APPLICATIONS I**  
**4 units, 3 lecture hours, 3 lab hours,**  
**(Formerly Business Information Processing 9)**  
 ADVISORY: Business & Technology 1 or equivalent.  
 Hands-on learning which covers: an introduction to computers, their use, and the development of general computer skills with integrated software for office applications. Content includes word processing, spreadsheets, graphics, database, and electronic communication, using Microsoft Office. (A, CSU)
- 10 COMPUTER APPLICATIONS II**  
**4 units, 3 lecture hours, 3 lab hours**  
 PREREQUISITE: Business & Technology 9.  
 Advanced computer application skills for preparing and enhancing documents, spreadsheets, databases, and presentations for professional use. Typically the most current version of Microsoft Office is taught. (A, CSU)
- 18 SPREADSHEET FUNDAMENTALS**  
**2 units, 4 lecture hours, 1 lab hour, (9 weeks), (See also Computer Information Technology 23), (Formerly Business Information Processing 18)**  
 ADVISORY: A working knowledge of basic arithmetic is recommended. Eligibility for English 1A recommended.  
 Creating and formatting a worksheet, using formulas and functions, and creating graphs; integrating spreadsheets with other programs and the World Wide Web; and creating macros. Cross-listed with CIT-23. (A, CSU)
- 19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL**  
**1-8 units, (Formerly Secretarial Science 19 and Business General Office 19)**  
 COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.  
 Supervised employment extending the classroom based on occupational learning related to business & technology. Collaborative learning objectives established specific to business & technology. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)
- 23 JOB SEARCH AND WORKPLACE SKILLS**  
**3 units, 3 lecture hours**  
 PREREQUISITE: None.  
 Development of job-seeking and working relations tools and skills for students preparing to enter the workforce. Create marketable resumes and job search/interview strategies. Develop working relations competencies for greater on-the-job productivity and career success. Examination of human behavior, stress management, financial literacy, social and business relationships, goal setting, customer service, business communications, etiquette, leadership, teamwork, and conflict management. (A, CSU)
- 24 BEGINNING EXCEL**  
**1 unit, 1 lecture hour, 1 lab hour, (See also Computer Information Technology 31), (Formerly Business Information Processing 24)**  
 PREREQUISITE: None.  
 Creating a worksheet, formatting the worksheet, using formulas and functions, enhancing the display of workbooks, and creating graphs. Crosslisted with CIT-31. (A, CSU)
- 25 MICROSOFT OFFICE**  
**3 units, 3 lecture hours, 1 lab hour, (Formerly Business Information Processing 25)**  
 PREREQUISITE: Computer Information Technology 15.  
 The major software components of the Microsoft Office suite: Word, Excel, Access, and PowerPoint. Working within the Windows graphical user interface, creating applications and sharing data files to develop solutions that use more than one component of the suite. Cross-listed with CIT-20. (A, CSU)
- 26 DATABASE FUNDAMENTALS**  
**2 units, 4 lecture hours, 1 lab hour, (9 weeks), (Formerly Business Information Processing 26)**  
 PREREQUISITE: Computer Information Technology 15. ADVISORY: Eligibility for English 1A recommended.  
 Creating database files, entering data, modifying database file structure, designing queries, reports and forms. Cross-listed with CIT-26. (A, CSU)
- 28 MICROSOFT WORD I**  
**1.5 units, 1.5 lecture hours, 1 lab hour, (Formerly Business Information Processing 28)**  
 ADVISORY: Business & Technology 106 or equivalent.  
 Basic features of Microsoft Word. Designed to equip students with the skills to prepare personal correspondence and reports. (A, CSU)



- 29 MICROSOFT WORD II**  
1.5 units, 1.5 lecture hours, 1 lab hour,  
(Formerly Business Information Processing 29)  
PREREQUISITE: Business & Technology 28 or equivalent recommended.  
Advanced features of Microsoft Word. Designed for office personnel using Microsoft Word on the job. (A, CSU)
- 31 21ST CENTURY WORKFORCE SKILLS**  
1.5 units, 1.5 lecture hours, (Formerly Business & Technology 32)  
PREREQUISITE: None.  
Project-based course designed to help students develop the 'soft' skills needed to succeed in today's changing workplace. Course topics will include the changing global economy, the rise of entrepreneurial-ism, how to be a competitive job seeker, and the top ten soft skills which include adaptability, analysis/solution mindset, collaboration, communication, digital fluency, entrepreneurial mindset, empathy, resilience, self-awareness, and social/diversity awareness. Supplementary items may include career/personality assessments that require a fee. (A, CSU)
- 33 SOCIAL MEDIA AND EMERGING TECHNOLOGIES IN THE WORKPLACE**  
3 units, 2 lecture hours, 3 lab hours  
ADVISORY: Business & Technology 106.  
Project-based course providing dynamic coverage of current information available on social networking and emerging technologies for today's workplace environments. Includes researching and applying the latest tools toward office and administrative problem solving. (A, CSU)
- 104 TEN-KEY CALCULATIONS**  
2 units, 2 lecture hours, 1 lab hour,  
(Formerly Business General Office 8 and Business & Technology 4)  
PREREQUISITE: None.  
The operation of electronic desktop calculators and the application of these calculators to business oriented problems. The development of employable ten-key touch skills. (A)
- 106 COMPUTER KEYBOARDING**  
1.5 units, 1 lecture hour, 1.5 lab hours,  
(Formerly Business Information Processing 6 and Business & Technology 6)  
PREREQUISITE: None.  
Development of skills using the touch method to key letters, numbers, and figures on a computer keyboard. (A)
- 112 BUSINESS ENGLISH**  
3 units, 3 lecture hours, (Formerly Business Information Processing 59 and Business & Technology 12)  
PREREQUISITE: None.  
Gain the skills needed to create grammatically correct work while improving speaking and writing skills. Review rules of English grammar and apply new concepts for communicating effectively in business settings. (A)
- 115 REFRESHER MATH**  
3 units, 3 lecture hours, (Formerly Business General Office 53 and Business & Technology 15)  
PREREQUISITE: None.  
Review of math fundamentals involving fractions, decimals, percents, and measurements with application problems related to business and technology Designed for students preparing for business occupations. (A)
- 120 RESUME/INTERVIEW**  
1 unit, 1 lecture hour, (Formerly Business General Office 59 and 59A and Business & Technology 20)  
PREREQUISITE: None.  
Development of job-seeking skills for students preparing to enter the workforce. Creating marketable resumes and practicing steps for winning interviews. (A)
- 122 TYPING SKILLBUILDING**  
0.5 unit, 1.5 lab hours, (Pass/No Pass),  
(Formerly Business Information Processing 51A and Business & Technology 22)  
PREREQUISITE: Business & Technology 1 or equivalent.  
Techniques and practice for improving keyboard speed and accuracy in order to meet certificate requirements. (A)
- 123 TEN-KEY SKILLBUILDING**  
0.5 unit, 1.5 lab hours, (Pass/No Pass)  
PREREQUISITE: None.  
Techniques and practice for improving ten-key speed and accuracy in order to meet degree and certificate requirements. (A)

- 126 AUTOMATED BUSINESS RECORDS**  
 1 unit, 1 lecture hour, 1 lab hour, (Formerly Business & Technology 206)  
 PREREQUISITE: None.  
 Develop knowledge of record keeping by transferring data from paper accounting forms into a database, entering accounting information (customers, vendors, suppliers, etc.), modifying file structures, designing queries to produce accounting reports, and printing reports, all using the database software. (A)
- 127 MICROSOFT OUTLOOK AND E-MAIL**  
 1 unit, 1 lecture hour, 1 lab hour  
 PREREQUISITE: None.  
 Using the Microsoft Outlook computer program to manage e-mail, appointments, contacts, and tasks; and to make notes and journal entries. Create effective e-mail messages for professional settings. (A)
- 130 BEGINNING POWERPOINT**  
 1 unit, 1 lecture hour, 1 lab hour  
 PREREQUISITE: None.  
 Using basic features of Microsoft PowerPoint computer program to create presentations including editing, adding effects and presenting a finished presentation. (A)
- 131 APPLIED ACCOUNTING**  
 3.5 units, 3 lecture hours, 2 lab hours,  
 (Formerly Business General Office 51 and Business & Technology 31)  
 PREREQUISITE: None.  
 Practical accounting for service and merchandising businesses involving classification of accounts, relationship of assets, liabilities, and owner's equity; posting, accounts receivable, accounts payable, financial reports, the accounting cycle, and payroll. (A)
- 132 CUSTOMER SERVICE IN THE ONE-PERSON OFFICE**  
 3 units, 2 lecture hours, 3 lab hours  
 PREREQUISITE: None.  
 Practical, project-based course to enhance one's ability to gain and retain both customers and quality employees. (A)
- 140 LEGAL DOCUMENT PROCESSING**  
 3 units, 2 lecture hours, 3 lab hours, (See also Paralegal 156), (Formerly BSS 57A and Business General Office 56 and Business & Technology 40)  
 ADVISORY: Business & Technology 1 and 28.  
 Producing and formatting business and legal correspondence and documents using a current word processing program. (A)
- 143 MEDICAL OFFICE VOCABULARY**  
 1 unit, 1 lecture hour  
 PREREQUISITE: None.  
 Develop the ability to pronounce, spell, define, and use medical terms in a medical office. (A, CSU)
- 144 MEDICAL ADMINISTRATIVE ASSISTANT**  
 2.5 units, 2 lecture hours, 2 lab hours, (Fall only), (Formerly BSS 58 and Business General Office 58 and Business & Technology 44)  
 PREREQUISITE: None.  
 Administrative procedures in a medical office/healthcare setting. Prepare documents, file charts, conduct basic office operations; consider legal, ethical and cultural issues when interacting with patients. (A)
- 147 MEDICAL MANAGEMENT SOFTWARE**  
 2 units, 1 lecture hour, 3 lab hours,  
 (Formerly Business Information Processing 63 and Business & Technology 47)  
 PREREQUISITE: None.  
 Introduction to medical office management software. Students will learn to enter patient information, insurance information, schedule appointments, and generate reports. (A)
- 148 MEDICAL INSURANCE & BILLING CONCEPTS**  
 2.5 units, 2 lecture hours, 2 lab hours,  
 (Formerly BSS 64 and Business General Office 64 and Business & Technology 48)  
 PREREQUISITE: None.  
 Interpret health insurance plans, complete various medical forms used in a medical office, and utilize ICD-10 and CPT codes. (A)
- 306 COMPUTER KEYBOARDING**  
 1 lecture hour, 1.5 lab hours  
 PREREQUISITE: None.  
 Development of skills using the touch method to key letters, numbers, and figures on a computer keyboard.
- 307 INTRODUCTION TO WORD PROCESSING**  
 1 lecture hour, 1.5 lab hours, (Repeats = 3)  
 PREREQUISITE: None.  
 Introduction of word processing features in various software platforms. Designed to equip students with the skills to prepare basic personal correspondence.

**331 21ST CENTURY WORKFORCE SKILLS****1.5 lecture hours**

PREREQUISITE: None.

Project-based course designed to help students develop the 'soft' skills needed to succeed in today's changing workplace. Course topics will include the changing global economy, the rise of entrepreneurial-ism, how to be a competitive job seeker, and the top ten soft skills which include adaptability, analysis/solution mindset, collaboration, communication, digital fluency, entrepreneurial mindset, empathy, resilience, self-awareness, and social/diversity awareness. Supplementary items may include career/personality assessments that require a fee.

**332 CUSTOMER SERVICE IN THE ONE-PERSON OFFICE****2 lecture hours, 3 lab hours, (Repeats = 3)**

PREREQUISITE: None.

Practical, project-based course to enhance one's ability to gain and retain both customers and quality employees.

**370A OFFICE ASSISTANT APPLICATIONS****5 lecture hours, 10 lab hours, (20 weeks), (300 total hours), (Repeats = 3), (Open Entry/Open Exit), (Formerly CTVTC 70, CTCTC 370 and Business & Technology 370)**

COREQUISITE: Business &amp; Technology 370B.

Develop and improve skills for those desiring office employment. Emphasis on records management, keyboarding, grammar, 10-key, MS Word, MS Excel, telephone techniques, and computer literacy. Must be taken concurrently with BT 370B.

**370B OFFICE ASSISTANT APPLICATIONS****5 lecture hours, 10 lab hours, (20 weeks), (300 total hours), (Repeats = 3), (Open Entry/Open Exit)**

COREQUISITE: Business &amp; Technology 370A.

Develop and improve skills for those desiring office employment. Emphasis on human relations, career document preparation, resume and interview and professional appearance. Must be taken concurrently with BT 370A.

**375A INTRODUCTION TO KEYBOARDING****4 lab hours, (Repeats = 3), (Open Entry/Open Exit)**

PREREQUISITE: None.

Development of skills using the touch method to key letters, numbers, and figures on a computer keyboard.

**375B INTRODUCTION TO FILING****1.56 lab hours, (Repeats = 3), (Open Entry/Open Exit)**

PREREQUISITE: None.

An introduction to filing methods and principles. Utilize the 12 rules of filing which includes alphabetic, geographic, numeric, government, and subject filing.

**375C BASIC OFFICE COMMUNICATIONS****1.78 lecture hours, 2.67 lab hours, (Repeats = 3), (Open Entry/Open Exit)**

PREREQUISITE: None.

Develop and improve effective communication skills. Emphasis on spelling, proofreading, improving vocabulary, and telephone/e-mail etiquette.

**375D MATH REVIEW AND TEN-KEY CALCULATOR****3.3 lab hours, (Repeats = 3), (Open Entry/Open Exit)**

PREREQUISITE: None.

Develop and improve skills with emphasis on the 10-key calculator and math review.

**375E JOB SEARCH DOCUMENTS****0.83 lecture hours, 2.5 lab hours, (Repeats = 3), (Open Entry/Open Exit)**

PREREQUISITE: None.

Create essential employment documents such as a resume, cover letter, and employment application.

**377 GETTING STARTED WITH COMPUTERS AND WORKPLACE TECHNOLOGY****0.84 lecture hour, 0.83 lab hour, (Repeats = 3), (Pass/No Pass)**

PREREQUISITE: None.

Gain basic technology literacy required for the workplace as well as for success in introductory technology courses. Skills include: launching a computer and navigating to applications, keyboarding, emailing, and creating basic documents.

**379 INTRODUCTION TO MICROSOFT OFFICE APPLICATIONS****1 lecture hour, 1.5 lab hours, (Repeats = 3), (Pass/No Pass)**

PREREQUISITE: None.

Hands-on overview of essential Microsoft Office applications including Outlook, Word, Excel, Access, and PowerPoint.

**CARPENTRY**

SEE CONSTRUCTION

**CHEMISTRY (CHEM)****1A GENERAL CHEMISTRY****5 units, 3 lecture hours, 6 lab hours**

PREREQUISITE: High school chemistry with laboratory component, Chemistry 101P, or Chemistry 3A or equivalent, and Mathematics 3A or equivalent. ADVISORY: Eligibility for English 1A recommended.

Development of atomic theory; atoms, isotopes, molecules, and ions; compounds; classification of matter; formulas and equations; stoichiometry; introduction to aqueous reactions: precipitation, acids and bases, and gas forming and redox reactions; gas laws; kinetic molecular theory of gases; thermochemistry; modern atomic theory; VSEPR theory; valence bond (hybridization) and molecular orbital theories; intermolecular forces; properties of liquids; solids and crystal structures; solution behavior; colligative properties; associated laboratory experiments; and volumetric (titrimetric) and gravimetric analysis methods. (C-ID CHEM 110 and CHEM 120S = CHEM 1A + CHEM 1B) (A, CSU-GE, UC, I)

**1B GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS****5 units, 3 lecture hours, 6 lab hours**

PREREQUISITE: Chemistry 1A. ADVISORY: Eligibility for English 1A recommended.

Acid-base theory; chemical kinetics; equilibrium (acid-base, hydrolysis, and solubility); chemical thermodynamics and electrochemistry; selected topics in nuclear chemistry, coordination chemistry, and/or chemistry of selected groups; inorganic qualitative and quantitative analysis. (C-ID CHEM 120S = CHEM 1A + CHEM 1B) (A, CSU-GE, UC, I)

**3A INTRODUCTORY GENERAL CHEMISTRY****4 units, 3 lecture hours, 3 lab hours, (Replaces Chemistry 2A-2B)**

PREREQUISITE: Mathematics 3A or 103. ADVISORY: Eligibility for English 1A recommended.

Chemistry for applied science and non-science majors. The scientific method; chemical computations; composition of matter, energy, and physical and chemical changes; fundamental laws and principles; atomic and molecular theory, structure; bonding; inorganic nomenclature, kinetic molecular, gas laws, solutions, acid-base theories, oxidation-reduction, equilibrium, nuclear chemistry, and qualitative and quantitative theories and techniques. (C-ID CHEM 101) (A, CSU-GE, UC, I)

**3B INTRODUCTORY ORGANIC & BIOLOGICAL CHEMISTRY****4 units, 3 lecture hours, 3 lab hours, (Replaces Chemistry 3)**

PREREQUISITE: Chemistry 3A.

Introduction to the basic concepts of organic and biochemistry. Structure and behavior of organic and biological compounds, metabolism, and regulation. Primarily for students in the health-oriented professions. Not a substitute for Chemistry 3A. (C-ID CHEM 102) (A, CSU-GE, UC)

**8A ELEMENTARY ORGANIC CHEMISTRY****3 units, 3 lecture hours, (Formerly Chemistry 8)**

PREREQUISITE: Chemistry 1A or 3A. ADVISORY: Eligibility for English 1A recommended.

Properties and reactions of aliphatic and aromatic compounds, theories of structure, and reaction mechanisms. For biology majors and students in prehealth sciences, environmental sciences, and programs that do not require a full-year sequence in organic chemistry. Recommended for students requiring a one-semester organic chemistry course. (A, CSU-GE, UC, I)

**18L ELEMENTARY ORGANIC CHEMISTRY LAB****2 units, 6 lab hours**

PREREQUISITE: Chemistry 1B. COREQUISITE: Chemistry 28A or Chemistry 8A. ADVISORY: Eligibility for English 1A recommended.

The course will focus on techniques appropriate to an industrial setting. Experiments will cover simple organic reactions and techniques used to prepare and process samples. Topics include preparation of solutions, solution properties, filtration, extraction, distillation, determination of physical properties, recrystallization, chromatography, and spectroscopy. (A, CSU, UC)

**20 PRACTICAL QUANTITATIVE ANALYSIS****5 units, 2 lecture hours, 9 lab hours**

PREREQUISITE: Chemistry 1B. ADVISORY: Eligibility for English 1A recommended.

The theory and practice of gravimetric and volumetric analysis, electrochemistry and instrumental methods. The analysis of unknown samples by both classical and instrumental techniques with emphasis on practical applications used in real lab settings. (A, CSU, UC)

**28A ORGANIC CHEMISTRY I****3 units, 3 lecture hours, (Formerly Chemistry 28)**

PREREQUISITE: Chemistry 1B. COREQUISITE: Chemistry 29A. ADVISORY: Eligibility for English 1A recommended.

Structures, properties, reactions, and nomenclature of alkanes, alkenes, alkynes, alkyl halides, alcohols, amines, ethers, epoxides, and organometallic compounds. Radical, substitution, and elimination reactions. Synthesis, separation, and identification of representative compounds. Reactions and nomenclature of stereoisomers. Introduction to Infrared, nuclear magnetic, and mass spectroscopies. Resonance and conjugation. Kinetic versus thermodynamic control of reactions. Multistep synthesis. (C-ID CHEM 150 = CHEM 28A + 29A and C-ID CHEM 160S = CHEM 28A + 29A + 28B + 29B) (A, CSU-GE, UC, I)

**28B ORGANIC CHEMISTRY II****3 units, 3 lecture hours**

PREREQUISITE: Chemistry 28A. COREQUISITE: Chemistry 29B. ADVISORY: Eligibility for English 1A recommended.

Structures, properties, reactions, and nomenclature of aromatic compounds, benzene derivatives, amines, carbonyl compounds and their derivatives, carbohydrates, amino acids, lipids, and nucleic acids. Structural analysis of aromatic, carbonyl, and amine containing compounds. Oxidation-reduction chemistry of organic functional groups. Multi-step synthesis, separation, identification, and reaction mechanisms of representative compounds. Protecting groups in multi-step synthesis. (C-ID CHEM 160S = CHEM 28A + 29A + 28B + 29B) (A, CSU-GE, UC, I)

**29A ORGANIC CHEMISTRY LABORATORY I****2 units, 6 lab hours**

PREREQUISITE: Chemistry 1B. COREQUISITE: Chemistry 28A. ADVISORY: Eligibility for 1A recommended.

Laboratory for Chemistry 28A; isolation, purification, and identification of organic compounds. Product characterization; melting point and boiling point; index of refraction; chromatography. Principles and hands on application of FT-NMR, FTIR, and gas and solid phase chromatography. Principles and interpretation of GC-MS data. Application of theories and mechanisms of organic reactions. Methods of synthesis. (C-ID CHEM 150 = CHEM 28A + 29A and C-ID CHEM 160S = CHEM 28A + 29A + 28B + 29B) (A, CSU-GE, UC, I)

**29B ORGANIC CHEMISTRY LABORATORY II****2 units, 6 lab hours**

PREREQUISITE: Chemistry 29A. COREQUISITE: Chemistry 28B. ADVISORY: Eligibility for English 1A recommended.

Continuation of Chemistry 29A and the laboratory for Chemistry 28B. Application of theories and mechanisms of organic reactions. Methods of synthesis, isolation, purification, and identification of organic compounds. Principles and hands on application of FT-NMR, FTIR, and gas and solid phase chromatography. Principles and interpretation of GC-MS data. (C-ID CHEM 160S = CHEM 28A + 29A + 28B + 29B) (A, CSU-GE, UC, I)

**99 SCIENTIFIC COMMUNICATION****2 units, 2 lecture hours**

ADVISORY: Biology 11A, Chemistry 1A, or Physics 4A.

Designed for students who have taken CHEM 1A, PHYS 4A, or BIOL 11A and wish to transfer for a science degree or pursue a career in the sciences. Focus on scientific communication. Techniques covered will include reading and evaluating literature, scientific writing, and presentations. (A, CSU)

**100I CHEMICAL LABORATORY INTERNSHIP****2-6 units, 6-18 lab hours**

COREQUISITE: Chemistry 18L or 20.

Supervised experience or employment in an approved chemical laboratory. (A)

**101P GENERAL CHEMISTRY PREPARATION****3 units, 2 lecture hours, 2 lab hours**

PREREQUISITE: Mathematics 201. ADVISORY: Eligibility for English 1A recommended.

Introductory chemistry for students who plan to major in a scientific field. Appropriate for students desiring to prepare themselves for CHEM 1A. Emphasizes chemical nomenclature and techniques of chemical problem solving. Topics covered include: dimensional analysis; conversions between measuring units; temperature; mass, mole and volume calculations; density; chemical equations; and solutions. Students must demonstrate a minimum of 80% competency in dimensional analysis, nomenclature, and mole calculations, on department approved proficiency quizzes, in order to pass the course. (A)

**CHICANO-LATINO STUDIES (CLS)**

FORMERLY CULTURAL STUDIES, LARAZA STUDIES

**11 INTRODUCTION TO CHICANO-LATINO STUDIES****3 units, 3 lecture hours, (Formerly Cultural Studies 11)**

ADVISORY: Eligibility for English 1A recommended.

The Chicano-Mexican American community, culture, and heritage in American society. An interdisciplinary approach to the study of society and culture, social and cultural change, and social and cultural conflict. Examines the roots and dynamics of Mexican and Mexican American cultures, from the Indigenous civilizations of Mesoamerica to the present. Also includes an introduction to the broader Latino population in the U.S. (A, CSU-GE, UC, I)

**12 MEXICAN AMERICAN HISTORY****3 units, 3 lecture hours, (Formerly Cultural Studies 12)**

ADVISORY: Eligibility for English 1A recommended.

A survey of Mexican American history from the indigenous civilizations of Mesoamerica to the present, with a focus on the history of Mexicans in the United States, and the historical reasons for migration. U.S.-Mexico relations and the history and heritage of the Chicana/Chicano community in the Southwestern U.S. are explored in depth. (A, CSU-GE, UC, I)

**13 POLITICS AND THE CHICANO-LATINO COMMUNITY****3 units, 3 lecture hours, (Formerly Cultural Studies 13)**

ADVISORY: Eligibility for English 1A recommended.

Chicano-Latino political issues, interaction with governmental and political structures, legislation, political parties, pressure groups, political socialization, and political change. The Chicano Movement. Chicano-Latino political organizations. (A, CSU, UC)

**14 SOCIOLOGY OF THE MEXICAN AMERICAN COMMUNITY****3 units, 3 lecture hours, (See also Sociology 14), (Formerly Cultural Studies 14)**

ADVISORY: Eligibility for English 1A recommended.

Sociological examination of the Chicano and Latino in American society: family, religion, education, social class, gender, and political and social institutions. Emphasis on social problems, social issues, and social change. (A, CSU, UC)

**17A BEGINNING MEXICAN FOLK DANCE****3.5 units, 3 lecture hours, 2 lab hours, (See also Dance 17), (Formerly Cultural Studies and Chicano-Latino Studies 17)**

ADVISORY: Eligibility for English 1A recommended.

History and origin of Mexican dance, from the pre-Columbian era through the arrival of the Spaniards. Analysis of the form, function, and symbolism of the music, musical instruments, movements, and choreography. Examination of the role of gender in this art form. Dances practiced and performed at the beginning level. (A, CSU-GE, UC)

**17B BEGINNING INTERMEDIATE MEXICAN FOLK DANCE****3.5 units, 3 lecture hours, 2 lab hours, (See also Dance 17B)**

PREREQUISITE: Chicano-Latino Studies 17A. Demonstrated experience and skills at the beginning level as assessed by instructor. ADVISORY: Eligibility for English 1A recommended.

History and origin of Mexican dance, from the pre-Columbian era through the arrival of the Spaniards. Analysis of the form, function, and symbolism of the music, musical instruments, movements, and choreography. Examination of the role of gender in this art form. Dances practiced and performed at the pre-intermediate level. (A, CSU, UC)

**18 LATIN JAZZ ENSEMBLE****2 units, 1 lecture hour, 3 lab hours, (See also Music 48), (Formerly Cultural Studies 18)**

ADVISORY: Ability to perform on an instrument or voice at college level as determined by audition. Eligibility for English 1A recommended.

Study and performance of Latin jazz and Afro Cuban music. Students will develop an awareness and appreciation of the music of Latin America and Cuba through artistic and cultural creation. Participation in concerts and jazz festivals required. (A, CSU, UC)

**20 CHICANO ART****3 units, 3 lecture hours, (Formerly Cultural Studies 20)**

ADVISORY: Eligibility for English 1A recommended.

Mexican, Chicano, and Latino art from the historical to the contemporary. Contemporary art forms and their ancestral cultural base. Survey of Mexican, Chicano and Latino artistic expressions. (A, CSU-GE, UC, I)

**21 CHICANO LITERATURE****3 units, 3 lecture hours, (Spring), (Formerly Cultural Studies 21)**

ADVISORY: Eligibility for English 1A recommended.

Survey of Chicano-Latino classic and popular literature. Reading and critical analysis of novels, short stories, poetry, and plays. (C-ID ARTH 145) (A, CSU-GE, UC, I)

**22 ART OF THE ANCIENT AMERICAS**  
**3 units, 3 lecture hours, (See also Art 60)**  
 ADVISORY: English 1A.

A historical survey of the art of the indigenous cultures of Mesoamerica (Mexico & Central America) and Andean South America prior to European contact. Featured cultures include Olmec, Maya, Toltec, Aztec, Paracas, Nazca, Moche, Wari & Inca. (A, CSU, UC)

**24 LA CHICANA AND LATINA**  
**3 units, 3 lecture hours, (Formerly Cultural Studies 24), (See also Women's Studies 24)**  
 ADVISORY: Eligibility for English 1A recommended.

A sociological analysis of Mexican American women in contemporary society. Special emphasis on her role in the family, church, education, economics, and politics. (A, CSU, UC)

**27A INTERMEDIATE MEXICAN FOLK DANCE**  
**3.5 units, 3 lecture hours, 2 lab hours, (See also Dance 27A)**

PREREQUISITE: Chicano-Latino Studies 17B. Demonstrated experience and skills at the beginning level as assessed by instructor. ADVISORY: Eligibility for English 1A recommended.

History of the origin of Mexican dance, from the arrival of the Spaniards to the present time. Analysis of the form, function, and symbolism of the music, musical instruments, movements and choreographies. Dances practiced and performed at the intermediate level. (A, CSU, UC)

**27B ADVANCED MEXICAN FOLK DANCE**  
**3.5 units, 3 lecture hours, 2 lab hours, (See also Dance 27B), (Formerly Chicano-Latino Studies 27)**

PREREQUISITE: Chicano-Latino Studies/Dance 27A. ADVISORY: Eligibility for English 1A recommended.

History of the origin of Mexican dance, from the arrival of the Spaniards to the present. Analysis of the form, function, and symbolism of the music, musical instruments, movements and choreographies. Dances practiced and performed at the advanced level. (A, CSU-GE, UC)

**28 ANCIENT MEXICO**  
**3 units, 3 lecture hours, (See also Anthropology 28), (Formerly Cultural Studies 28)**

ADVISORY: English 1A.

A survey of history, geography, socio-political, religious systems, and cultural achievements of Mesoamerican civilizations such as the Olmec, Zapotec, Teotihuacano, Mayan, Toltec, and Aztec/Mexican. (A, CSU, UC)

**29 HISTORY OF MEXICO, COLONIAL TO CONTEMPORARY PERIOD**  
**3 units, 3 lecture hours, (See also History 29), (Formerly Cultural Studies 29)**  
 ADVISORY: English 1A.

A social, economic, and political survey of Mexican history from the colonial (1521) to the contemporary period. (A, CSU-GE, UC, I)

**30 MIGRATION AND THE FAMILY: SOCIAL AND PSYCHOLOGICAL PERSPECTIVES**  
**3 units, 3 lecture hours, (Formerly Cultural Studies 30)**

ADVISORY: Eligibility for English 1A recommended.

Social and psychological perspectives on transnational migration and its impact on the family and mental health. Analysis of the dynamics of personality development and its relationship with the Mexican and Mexican American family. Emphasis on culture, socialization, resilience, and survival. (A, CSU-GE, UC, I)

**33 COMMUNITY INVOLVEMENT: SERVICE LEARNING**

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Service learning in community, civic, or legal settings. Personal development, community and civic development, public policy development and analysis, and leadership theory. An introduction to Participatory Action Research. A working understanding of issues impacting the political, economic, and social fabric of the Latino community. Civic engagement related to coursework utilizing practical applications of course concepts. (A, CSU, UC)

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## CHILD DEVELOPMENT (CHDEV)

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**1 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN**  
**3 units, 3 lecture hours**

ADVISORY: English 1A.

Historical context and theoretical perspectives of developmentally appropriate practice in early care and education. Examines the role of the early childhood educator, identification of best practices for environmental design, curriculum, and teaching strategies. Explores teacher child relationships, professional ethics, career pathways and professional standards. (C-ID ECE 120) (A, CSU)

**3 INTRODUCTION TO CURRICULUM****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Verification of freedom from tuberculosis. Verification of immunization against influenza, pertussis and measles. ADVISORY: English 1A.

An overview of knowledge and skills related to providing appropriate curriculum and environments for young children. Examines a teacher's role in supporting development and learning for all young children. Explores strategies for developmentally-appropriate practice based on observation and assessments across the curriculum. The "To Be Arranged" hours may include observation of and participation in planning learning environments and curriculum. (C-ID ECE 130) (A, CSU)

**5 PARENT EDUCATION****3 units, 3 lecture hours**

ADVISORY: English 1A.

An introduction to the skills needed for effective parenting; the developmental needs of children; effective communication skills; appropriate and effective use of discipline; family structure and function. (A, CSU)

**6 HEALTH, SAFETY AND NUTRITION IN EARLY CHILDHOOD EDUCATION****3 units, 3 lecture hours**

ADVISORY: English 1A.

Introduction to laws, regulations, standards, policies and procedures and early childhood curriculum related to child health, safety, and nutrition in early childhood settings. Prevention, detection, and management of communicable disease; medical issues associated with disabilities and chronic illness; physical health; mental health and safety for both children and adults; collaboration with families and health professionals. Integration of concepts into planning and program development for children ages 0 to 5. (C-ID ECE 220) (A, CSU)

**9 MUSIC, MOVEMENT, AND DRAMA FOR YOUNG CHILDREN****3 units, 3 lecture hours**

ADVISORY: English 1A.

Methods and theory in music, movement and drama for the young child. Emphasis on integrating music, movement and drama into the early childhood curriculum and developing a repertoire of music, movement and drama materials. (A, CSU)

**10 SCIENCE AND MATH FOR YOUNG CHILDREN****3 units, 3 lecture hours, (Formerly Child Development 27)**

ADVISORY: English 1A.

Foundational methods and theory in science and math for the young child. Emphasis on integrating science and math into the early childhood curriculum and developing resource materials for these curriculum areas. (A, CSU)

**11 THE YOUNG CHILD WITH SPECIAL NEEDS****3 units, 3 lecture hours**

PREREQUISITE: Child Development 39. ADVISORY: English 1A.

An introduction to the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, the identification and referral process and community resources. (A, CSU)

**12 CHILD ABUSE****3 units, 3 lecture hours, (See also****Psychology 12)**

ADVISORY: English 1A.

Issues related to abused, battered, and neglected children including issues related to child sexual molestation and pornography. Characteristics of different types of abusers, pedophiles, and adolescent molesters. Reporting laws and the legal process. Identification, prevention, and treatment of abused children and abusers. (A, CSU)

**15 DIVERSITY AND CULTURE IN EARLY CHILDHOOD EDUCATION PROGRAMS****3 units, 3 lecture hours**

ADVISORY: English 1A.

This course will examine the influences on development of children's social identities. Examination of culturally relevant and linguistically appropriate anti-bias approaches supporting all children. Reflection on one's own understanding of diversity in order to inform teaching practices and/or program development. (C-ID ECE 230) (A, CSU)



**16 INTRODUCTION TO EARLY INTERVENTION**  
**3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Child Development 20, verification of freedom from tuberculosis. Verification of immunization against influenza, pertussis and measles. ADVISORY: Child Development 11 and 17A, and English 1A.

The study of infants and toddlers with atypical development, trauma history, infant mental health challenges or other special needs, both in the Early Intervention setting and in the Child Care setting. Explores strategies and interventions used in the field of Early Intervention. Current theories in Early Intervention, early relationships, family systems, grief processing and stressors. The "To Be Arranged" hours may include observation of practitioners and participation in assessments and early intervention strategies. (A, CSU)

**17A INFANT AND TODDLER PRACTICUM**  
**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Child Development 7 and 38)**

PREREQUISITE: Child Development 1, 6, and 39. Verification of freedom from tuberculosis. Verification of immunization against influenza, pertussis and measles. ADVISORY: English 1A.

Applies current theory and research to the care and education of infants and toddlers in group settings. Examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. The "To Be Arranged" hours may include observation of and participation in planning environments and facilitating infant toddler growth and development. (A, CSU)

**17B ADVANCED INFANT AND TODDLER DEVELOPMENT**  
**3 units, 3 lecture hours, (Formerly Child Development 7A)**

PREREQUISITE: Child Development 1, 6, and 39. ADVISORY: English 1A.

A study of infants and toddlers focusing on birth to age three including physical, cognitive, language, social, and emotional growth and development. Includes an overview of pre-conception, conception, prenatal development and birth. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development. (A, CSU)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL**  
**1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors. ADVISORY: English 1A.

Supervised employment extending the classroom based on occupational learning related to child development. Collaborative learning objectives established specific to child development. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**20 OBSERVATION AND ASSESSMENT**  
**3 units, 3 lecture hours**

PREREQUISITE: Child Development 1, 3, and 39. ADVISORY: English 1A.

Appropriate use of assessment, observation, and recording strategies; documentation of development and learning; collaboration with families and professionals; use of rating systems, portfolios, and multiple assessment tools to plan learning environments and experiences. (C-ID ECE 200) (A, CSU)

**30 CHILD, FAMILY, AND COMMUNITY**  
**3 units, 3 lecture hours**

ADVISORY: English 1A.

The process of socialization focusing on the interrelationship of family, school and community. Examines the influence of multiple societal contexts. Explores the role of collaboration between family, community, and schools in supporting children's development. (C-ID CDEV 110) (A, CSU-GE, UC, I)

**37A EARLY CHILDHOOD PRACTICUM**  
**3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Child Development 1 and Child Development 3 and Child Development 39/Psychology 39. Verification of freedom from tuberculosis. Verification of immunization against influenza, pertussis and measles. ADVISORY: English 1A.

Curriculum design, implementation and evaluation of developmentally appropriate experiences that promote positive development and learning for all young children, in a supervised lab school setting or in early childhood programs with mentor teachers. Emphasis on child centered play-oriented approaches to teaching, learning and assessment. Classroom experiences will support connections between theory and practice, develop professional behaviors and build comprehensive understanding of children and families. The "To Be Arranged" hours may include observation of and participation in planning environments and activities to facilitate preschool children's growth and development. (C-ID ECE 210) (A, CSU)

**37B ADVANCED PRACTICUM IN EARLY CHILDHOOD EDUCATION****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Child Development 37A. Verification of freedom from tuberculosis. Verification of immunization against influenza, pertussis and measles. ADVISORY: English 1A.

Supervised experience as a teacher in an early childhood education program: developing environments for learning, child observation and assessment, documentation of children's work, behavior guidance, group management, collaborative teaching, building relationships with families, and effective preparation and implementation of curriculum. The "To Be Arranged" hours may include observation of and participation in planning environments and activities to facilitate the growth and development of preschool children in early care and education settings. (A, CSU)

**38 LIFESPAN DEVELOPMENT****3 units, 3 lecture hours, (See also Psychology 38)**

ADVISORY: English 1A.

Basic theories, research concepts, and principles of typical and atypical physical, cognitive and psychosocial development at each major stage of life from conception to death. All major topics of human development (e.g. human behavior, sexuality, nutrition, health, stress, key relationships of humankind to the social and physical environment, and implications of death and dying) presented in an integrated manner. (C-ID PSY 180) (A, CSU-GE, UC, I)

**39 CHILD GROWTH AND DEVELOPMENT****3 units, 3 lecture hours, 1 lab hour, (See also Psychology 39)**

ADVISORY: English 1A. Verification of freedom from tuberculosis. Optional verification of immunization against influenza.

Examines the major physical, cognitive, social and emotional developmental milestones for children from conception through adolescence. Emphasis on interactions between maturational processes and environmental factors. Students will observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories. The "To Be Arranged" hours may include observation and documentation of children at various stages of development. (C-ID CDEV 100) (A, CSU-GE, UC, I)

**40A ADMINISTRATION I: PROGRAMS IN EARLY CHILDHOOD EDUCATION****3 units, 3 lecture hours, (Formerly Child Development 36A)**

PREREQUISITE: Child Development 30 and 37A or Child Development 30 and 17A. ADVISORY: English 1A.

Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. (A, CSU)

**40B ADMINISTRATION II: PERSONNEL AND LEADERSHIP IN EARLY CHILDHOOD EDUCATION****3 units, 3 lecture hours, (Formerly Child Development 36B)**

PREREQUISITE: Child Development 30 and 37A or Child Development 30 and 17A. ADVISORY: English 1A.

Effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. (A, CSU)

**42 CHILD NUTRITION****3 units, 3 lecture hours, (See also Food and Nutrition 42)**

ADVISORY: Food and Nutrition 40 and eligibility for English 1A recommended.

Nutritional requirements of infants and children from conception through adolescence. Nutritional needs of pregnant and lactating women. Feeding infants and children for optimum physical and mental development. Child and maternal nutrition programs. Social and cultural influences affecting child and maternal nutrition. (A, CSU)

**43 CHILDREN'S LITERATURE****3 units, 3 lecture hours**

ADVISORY: English 1A.

Selection and presentation of literature for the child from infancy to eight years. Storytelling, emergent literacy and awareness regarding diverse perspectives. Emphasis on supporting the child's emotional, social and cognitive growth through experience with books. (A, CSU)

**45 ADULT SUPERVISION AND MENTORING IN EARLY CARE AND EDUCATION**

**3 units, 3 lecture hours**

PREREQUISITE: Child Development 17A or 37A. Current employment in a supervisory capacity in an early care and education setting. ADVISORY: English 1A.

Methods and principles of mentoring and supervising student teachers, volunteers, staff, and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders. This course satisfies the adult supervision requirement for the Master Teacher Permit issued by the California Commission on Teacher Credentialing. (A, CSU)

**47 EMERGENT LITERACY**  
**3 units, 3 lecture hours, (Formerly Child Development 47A)**

ADVISORY: English 1A.

Research-based principles and practices for providing children birth through age eight with a strong foundation in emergent language and literacy skills within a developmentally-appropriate approach. Topics include the teacher's role, preparation of the classroom environment curriculum development and teaching strategies, including ways to support the child learning English as a second language. (A, CSU)

**48 SUPPORTING CHILDREN WITH CHALLENGING BEHAVIORS**

**3 units, 3 lecture hours**

ADVISORY: English 1A.

Effective strategies for working with children with challenging behaviors in early childhood environments; guidelines for discussion, identification and intervention of impeding behaviors; emphasis on teacher's role in supporting children through emotional difficulties and sensory challenges; needs of children at risk, in trauma and/or deprivation. Specific disabilities or special needs which affect behavior will be studied. (A, CSU)

**53 FAMILY CHILD CARE PROGRAMS**  
**3 units, 3 lecture hours**

ADVISORY: English 1A.

An introduction to managing a quality family child care home; meeting licensing requirements, developing policies for parents, business practices, recruiting children, and strategies to promote professionalism. Program planning including developmentally appropriate practices for children of mixed ages, guidance techniques, and designing an environment for children's learning. (A, CSU)

**60 INTRODUCTION TO CHILD WELFARE**  
**3 units, 3 lecture hours, (See also Human Services 60)**

ADVISORY: English 1A.

Introduction to the child welfare system. Exploration of the goals of child welfare including safety, a permanent family and well-being of every child. Emphasis on the practice of preventing, remedying, or ameliorating child maltreatment. (A, CSU)

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**CHINESE**

SEE FOREIGN LANGUAGES

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**CISCO**

SEE ELECTRICAL SYSTEMS TECHNOLOGY (EST)

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**COMMUNICATION (COMM)**

FORMERLY SPEECH

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**1 INTRODUCTION TO PUBLIC SPEAKING**  
**3 units, 3 lecture hours, (Formerly Speech 1)**

ADVISORY: Eligibility for English 1A recommended.

Theories and techniques of public speaking from the perspective of the speaker and the audience. Emphasis on research, logical organization, composition and effective delivery of informative and persuasive speeches. Practice in clearly stating and developing ideas. (C-ID COMM 110) (A, CSU-GE, UC, I)

**2 INTERPERSONAL COMMUNICATION**  
**3 units, 3 lecture hours, (Formerly Speech 2)**

ADVISORY: Eligibility for English 1A recommended.

Introduction to interaction processes in interpersonal communication settings. Emphasis on effective and appropriate uses of verbal and nonverbal messages in the initiation, development, maintenance, and termination of personal and professional relationships. (C-ID COMM 130) (A, CSU-GE, UC)

**4 PERSUASION**  
**3 units, 3 lecture hours, (Formerly Speech 4)**

ADVISORY: Eligibility for English 1A recommended.

Theories and practice of influence, advocacy, and reasoning from the perspective of both persuader and audience. Practice preparing effective, ethical persuasive appeals. (C-ID COMM 190) (A, CSU-GE, UC, I)

**8 GROUP COMMUNICATION****3 units, 3 lecture hours, (Formerly Speech 8)**

ADVISORY: Eligibility for English 1A recommended.

An introduction to group communication as a vehicle for solving problems, reaching decisions, and making recommendations on policy. Students will study and practice the theories, behaviors, and processes of group communication. (C-ID COMM 140) (A, CSU-GE, UC, I)

**8H HONORS GROUP COMMUNICATION****3 units, 3 lecture hours**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

An introduction to group communication as a vehicle for solving problems, reaching decisions, and making recommendations on policy. Students will study and practice the theories, behaviors, and processes of group communication. Honors sections will also focus on a more in-depth analysis of group communication theory and its application. (A, CSU-GE, UC, I)

**10 INTERCULTURAL COMMUNICATION****3 units, 3 lecture hours**

ADVISORY: English 1A.

Introduction to the cultural variables and factors in the communication process. Emphasis given to effective communication in diverse social and professional environments. Analysis and comparisons of message perception, verbal and nonverbal communication, communication climates and language interpretation in interactions between people from different cultures. Activities to develop communication skills that improve competence in intercultural situations. (A, CSU, UC)

**12 FUNDAMENTALS OF ORAL INTERPRETATION****3 units, 3 lecture hours, (See also Theatre Arts 12), (Formerly Speech 12)**

ADVISORY: Eligibility for English 1A recommended.

An introduction to performance studies analysis, appreciation, and application of theories of interpretive performance of various forms of literature including poetry, prose, and drama. (A, CSU-GE, UC)

**20 COMMUNITY INVOLVEMENT****2-3 units, 1 lecture hour, 3-6 lab hours, (Formerly Speech 20)**

ADVISORY: Eligibility for English 1A recommended.

Theory and practice of community service in nonprofit agencies. Emphasis on the analysis, practice and application of communication theory, leadership, and citizenship through a community service experience. (A, CSU)

**25 ARGUMENTATION****3 units, 3 lecture hours, (Formerly Speech 25)**

ADVISORY: Eligibility for English 1A recommended.

Analysis, reasoning, advocacy, and criticism of ideas. Emphasis on derived conclusions based on valid evidence and sound inferences without using fallacies of thought and language. Demonstration of basic principles through a variety of oral presentations and written assignments. (C-ID COMM 120) (A, CSU-GE, UC, I)

**26 INTERCOLLEGIATE FORENSICS LABORATORY****1-3 units: 1 unit, 1 lecture hour, 1 lab hour; 2 units, 1 lecture hour, 3 lab hours; 3 units, 1 lecture hour, 6 lab hours, (Repeats = 3), (Formerly Speech 26)**

ADVISORY: Eligibility for English 1A recommended.

Competitive and practical experience in debate and public speaking. In addition to the class or activity hour each week on campus, students must attend intercollegiate tournaments for a specified number of days. (C-ID COMM 160B) (A, CSU)

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**COMPUTER AIDED DRAFTING AND DESIGN (CADD) SEE ALSO DRAFTING**


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**14 2D CAD I****3 units, 2 lecture hours, 3 lab hours, (Formerly Drafting 42 and 32)**

ADVISORY: Eligibility for English 1A recommended. Working knowledge of basic arithmetic recommended.

Creating and modifying digital drawings for the architectural, engineering, mechanical, manufacturing and other related industries. (A, CSU)

**16 3D SOLID MODELING I****3 units, 2 lecture hours, 3 lab hours, (Formerly Drafting 20 and Computer Aided Drafting and Design 26 and 34)**

ADVISORY: Eligibility for English 1A recommended. Working knowledge of basic arithmetic recommended.

CAD generated 2D sketches, 3D solid models, assemblies and detailed drawings for the mechanical and manufacturing industries. Design topic included. (A, CSU)

**22 MECHANICAL DRAWING I****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Computer Aided Drafting and Design 16.

Sheet metal, fasteners and welding drawings using solid modeling practices. Use of precision measuring tools and tolerances will also be covered. Industry Certified Exams. (A, CSU)

**24 2D CAD II**  
**3 units, 2 lecture hours, 3 lab hours**  
 PREREQUISITE: Computer Aided Drafting and Design 14.  
 Advanced 2D CAD topics for the computer aided drafts person in the disciplines of architecture, engineering, mechanical, manufacturing and other related industries. (A, CSU)

**26A 3D SOLID MODELING II**  
**3 units, 2 lecture hours, 3 lab hours**  
 PREREQUISITE: Computer Aided Drafting and Design 16.  
 Advanced drawings and features, design tables, configurations and sub-assemblies using 3D solid modeling techniques for mechanical and manufacturing industries. Industry Certified Exam. (A, CSU)

**28 PRODUCT DEVELOPMENT I**  
**3 units, 2 lecture hours, 3 lab hours**  
 PREREQUISITE: Computer Aided Drafting and Design 16.  
 Create realistic rapid prototypes/models from digital solid models using processes such as 3D printing, silicone molds, casting resins, vacuum forming, laser cutting and engraving and the application of finishes. Industry Certified Exam. (A, CSU)

**32 REVERSE ENGINEERING I**  
**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Drafting 22 and Computer Aided Drafting and Design 24)**  
 PREREQUISITE: Computer Aided Drafting and Design 16.  
 Reverse engineering practices using specialized software and various scanners including laser. Traditional methods will also be covered. (A, CSU)

**36A 3D SOLID MODELING III**  
**3 units, 2 lecture hours, 3 lab hours**  
 PREREQUISITE: Computer Aided Drafting and Design 16.  
 Create renderings and animations of solid models and assemblies. The application of advanced modeling features and techniques. Create solid models using surface modeling techniques. Run simulations on solid models to determine the factor of safety. (A, CSU)

**42 MECHANICAL DRAWING III**  
**3 units, 2 lecture hours, 3 lab hours**  
 PREREQUISITE: Computer Aided Drafting and Design 28 and 36A.  
 Project design using various CAD systems. Portfolio creation including presentation models. Industry Certified Exams. (A, CSU)

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## COMPUTER AIDED MANUFACTURING (CAM)

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**5 CNC OPERATION & MAINTENANCE FOR MACHINIST**  
**2.5 units, 1.5 lecture hours, 3 lab hours,**  
**(Formerly Computer Aided Manufacturing 25)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Learn how to read part prints and use measurement tools for first part inspection setup & operation CNC Mill & Lathe Machine, learn the G&M Codes for tool programming, shop safety and preform basic maintenance. (A, CSU)

**10 CNC MILL PROGRAMMING & OPERATION I**  
**4 units, 2 lecture hours, 6 lab hours,**  
**(Formerly Drafting and Computer Aided Drafting and Design 44)**  
 ADVISORY: Eligibility for English 1A recommended.  
 The CAM 10 class is designed to teach entry-level Machinist to design 3D parts in Mastercam and Fusion 360 CAD/CAM software. This core class is first in a sequence for the CNC Machinist career. (A, CSU)

**15 CNC PROGRAMMING FOR MACHINIST**  
**2.5 units, 1.5 lecture hours, 3 lab hours**  
 PREREQUISITE: Computer Aided Drafting and Design 14 or 16, or Computer Aided Manufacturing 10.  
 Designed for students who have CAD (Computer Aided Design) experience and are interested in CAM (Computer Aided Manufacturing) CAD/CAM. Students will use Mastercam & Fusion 360 tool programming software packages for Computer Numerical Control part programming. (A, CSU)

**20 CNC MILL PROGRAMMING & OPERATION II**  
**4 units, 2 lecture hours, 6 lab hours**  
 PREREQUISITE: Computer Aided Manufacturing 10.  
 The CAM 20 Class is an intermediate Digital Manufacturing course that teaches students the skill of CNC Machine setup/Operation & 3D Solid Geometry Design with Mastercam & Fusion 360 for Mill Tool Programming. (A, CSU)

**26 LATHE PROGRAMMING AND OPERATION II**  
**3 units, 2 lecture hours, 3 lab hours**  
 PREREQUISITE: Computer Aided Manufacturing 10.  
 Mastercam & Fusion 360 is the 3D Solid Designing and Tool Programming software for the Computer Numerical Control Operation Lathe course. Learn how to create production parts for part inspection. (A, CSU)

**31 MULTI-AXIS MILLING & PROGRAMMING****3 units, 2 lecture hours, 3 lab hours**

COREQUISITE: Computer Aided Manufacturing 20.

Multi-Axis Milling & Programming class is design to teach advance CAD/CAM tools for Multi-Axis Tool machining and Part Fixtures used in today's job shops. (A, CSU)

**COMPUTER INFORMATION TECHNOLOGY (CIT)**

FORMERLY INFORMATION SYSTEMS

**12 COMPUTER LITERACY****3 units, 3 lecture hours, 1 lab hour,  
(Formerly Computer Information Systems  
56 and Information Systems 12)**

ADVISORY: Eligibility for English 1A recommended.

Basic introduction to computers and their usage in business.

Basic principles of hardware and software; networking, e-commerce, shopping for a personal computer; social issues, such as ethics and security, associated with the role of computers in the world today; and an introduction to word processing, spreadsheets, database, and internet principles and usage. (A, CSU, UC)

**15 COMPUTER CONCEPTS****3 units, 3 lecture hours, 1 lab hour,  
(Formerly Computer Information Systems  
15 and Information Systems 15)**

ADVISORY: Eligibility for English 1A is recommended. A working knowledge of basic arithmetic is recommended.

Introduction to computers and their use. Topics include basic principles of hardware and software, application programs, systems software, telecommunications, networks, program design, the Internet, and the World Wide Web. Students will work with Windows and the Internet; word processing, spreadsheet, and database programs; and a programming language. (C-ID ITIS 120) (A, CSU, UC)

**19 WORK EXPERIENCE (COOPERATIVE),  
OCCUPATIONAL****1-8 units, (Formerly Information Systems  
19)**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to computer information technology. Collaborative learning objectives established specific to computer information technology. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**23 SPREADSHEET FUNDAMENTALS****2 units, 4 lecture hours, 1 lab hour, (9  
weeks), (See also Business & Technology  
18), (Formerly Information Systems 5 and  
18)**

ADVISORY: Eligibility for English 1A recommended. A working knowledge of basic arithmetic is recommended.

Creating and formatting a worksheet, using formulas and functions, and creating graphs; integrating spreadsheets with other programs and the World Wide Web; and creating macros. (A, CSU)

**28 CLIENT/SERVER DATABASES****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Computer Information Technology 15.

Fundamentals of relational database systems. How to design, program and administer a client / server database. (A, CSU)

**31 BEGINNING EXCEL****1 unit, 1 lecture hour, 1 lab hour, (See  
also Business & Technology 24), (Formerly  
Information Systems 24 and 74)**

PREREQUISITE: None.

Creating a worksheet, formatting the worksheet, using formulas and functions, enhancing the display of workbooks, and creating graphs. Cross-listed with BT-24. (A, CSU)

**40 COMPUTER OPERATING SYSTEMS****4 units, 3.5 lecture hours, 2 lab hours,  
(Formerly Information Systems 22)**

PREREQUISITE: Computer Information Technology 12 or 15.

Principles of computer operating systems. A survey and comparison of the graphical user interface along with the command line interface using various operating systems such as Microsoft Windows and Linux, etc. (A, CSU, UC)

**45 DATA COMMUNICATIONS**

**3 units, 3 lecture hours, 1 lab hour,  
(Formerly Computer Information Systems  
and Information Systems 17)**

PREREQUISITE: Computer Information Technology 15. ADVISORY: Eligibility for English 1A recommended.

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 and 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. (A, CSU)

**48A IT+ FUNDAMENTALS**

**3 units, 3 lecture hours, 1 lab hour**

ADVISORY: Computer Information Technology 15. Eligibility for English 1A recommended.

Skills for personal computer software applications and hardware support including features and functions of common operating systems, network connectivity using security and web browsing best practices. (A, CSU)

**48B A+ AND SECURITY PRINCIPLES**

**4 units, 4 lecture hours, 1 lab hour,  
(Formerly Information Systems 238,  
Computer Information Technology 238, and  
Computer Information Technology 48)**

ADVISORY: Computer Information Technology 15.

Skills for personal computer software and hardware support; server software and hardware support: installation, configuration, diagnosing and troubleshooting system software, basic networking, memory management, server principles and configuration and network security. Prepares students to take industry certification exams. Basic understanding information security in a business environment. Introduces network security, legal, ethical, and professional security issues, risk management, access control, and intrusion detection. Students learn the basics of information security. (A, CSU)

**49 SWITCHING, ROUTING, AND WIRELESS ESSENTIALS**

**3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Computer Information Technology 45.

Switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLANs) and security concepts. Students learn key switching and routing concepts. Students will perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN. (A, CSU)

**50 FUNDAMENTALS OF NETWORKING**

**4 units, 4 lecture hours, 1 lab hour,  
(Formerly Information Systems 28, 30 and  
30A.)**

PREREQUISITE: Computer Information Technology 45.

Implementing and supporting a network infrastructure. For product support professionals who will be responsible for installing, configuring and supporting a network infrastructure. Fundamentals of Windows and UNIX/Linux servers. (A, CSU)

**54A NETWORK SECURITY**

**3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Computer Information Technology 45 and Electrical Systems Technology 62.

An introduction to network security principles including firewall technologies, AAA, intrusion prevention, securing LANs, implementing VPNs, and managing secure networks. (A, CSU)

**54B CYBERSECURITY OPERATIONS**

**3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Computer Information Technology 45 and 58C.

An introduction to cybersecurity operations including detecting cybersecurity breaches and effectively responding to security incidents. This class is meant to provide a background for students desiring entry level work as a cybersecurity analyst within security operations centers. (A, CSU)

**55 DATABASE SECURITY**

**3 units, 3 lecture hours, 1 lab hour,  
(Formerly Information Systems 30F)**

PREREQUISITE: Computer Information Technology 45 and 50.

Design a database security framework for small, medium, and enterprise networks by using Microsoft Windows technologies. The fundamentals include Microsoft SQL Server, MySQL, and Oracle. (A, CSU)

**57 WIRELESS NETWORK SECURITY**

**3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Computer Information Technology 15. ADVISORY: Computer Information Technology 40, 45, and 50 recommended.

Basic understanding of wireless networking. Plan, design, and configure wireless networks and equipment. Basic security for wireless networks. Prepare for Wireless Network Security certification exam. (A, CSU)

**58B COMPUTER FORENSICS****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Computer Information Technology 15. ADVISORY: Computer Information Technology 40, 45, and 50 recommended.

This course introduces the methods used to conduct a computer forensics investigation. Topics include an overview of computer forensics as a profession, the computer investigation process, operating systems' boot processes and disk structures, data acquisition and analysis, ethics, and a review of standard computer forensic tools. (A, CSU)

**58C SECURITY+ FUNDAMENTALS****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Computer Information Technology 15. ADVISORY: Computer Information Technology 40, 45, and 50 recommended.

Provides a comprehensive overview of network security. Covers a full range of security concepts and techniques used in the business environment. Prepares students to become CompTIA Security+ certified. Covers authentication methods and common network attacks with strategies to protect a business against these attacks. Explores various network devices and media, and the proper use of perimeter topologies, extranets, and intranets to establish network security. Introduces basic cryptography and basic operational and organizational security measures. (A, CSU)

**58D NETWORK DEFENSE AND COUNTERMEASURES****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Computer Information Technology 15. ADVISORY: Computer Information Technology 40, 45, and 50 recommended.

Examines the practice and techniques of intrusion detection to deter network attacks against business information technologies. Provides a comprehensive overview of intrusion detection design, and implementation, virtual private networks, packet filters, and network traffic signatures. Prepares students to take the network defense and countermeasures exams like CompTIA Security+ exam and the E-C Council Certified Ethical Hacker exam. (A, CSU)

**58E PENETRATION TESTING****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Computer Information Technology 15. ADVISORY: Computer Information Technology 40, 45, and 50 recommended.

Fundamental overview of network security penetration testing, cryptography, vulnerability testing, password cracking, general hacking, authentication methods, packet filtering, proxy servers, and encryption strategies to protect business information systems. Prepares students for industry standard security certifications. (A, CSU)

**58F ETHICAL HACKING****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Computer Information Technology 15. ADVISORY: Computer Information Technology 40, 45, and 50 recommended.

Basic understanding of the ethics involved in testing systems and networks using hacking tools to judge the level of vulnerability. Penetration testing methodologies, security certification programs, laws governing hacking, tools such as port scanners and network sniffers as well as spyware, adware, worms, and viruses. (A, CSU)

**59 LINUX SYSTEM ADMINISTRATION****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Computer Information Technology 48A and 48B.

Provides a technical overview of the Linux operating system, including hands-on experience with commands, files, and tools. Topics include basic Linux commands, files and directories, text editing, electronic mail, pipes and filters, X Windows, shell environments, and scripting. Required for students wishing to pursue the Linux track preparing for industry certification. (A, CSU)

**60 BEGINNING VISUAL BASIC****4 units, 4 lecture hours, 1 lab hour,****(Formerly Information Systems 35 and 47)**

ADVISORY: Computer Information Technology 48A and 48B.

Provides a technical overview of the Linux operating system, including hands-on experience with commands, files, and tools. Topics include basic Linux commands, files and directories, text editing, electronic mail, pipes and filters, X Windows, shell environments, and scripting. Required for students wishing to pursue the Linux track preparing for industry certification. (A, CSU)

**63 BEGINNING JAVA PROGRAMMING****4 units, 4 lecture hours, 1 lab hour,****(Formerly Information Systems 33 and 39)**

ADVISORY: Computer Information Technology 15. Eligibility for English 1A recommended.

Developing Java Applets and applications using the Java programming language. Emphasis on object-orientated programming, control structures, methods, arrays, strings, inheritance, and graphics. (A, CSU, UC)

**65 ANDROID PROGRAMMING APPLICATIONS****4 units, 4 lecture hours, 1 lab hour**

COREQUISITE: Computer Information Technology 63.

An introduction to software development for the Android platform. Create Android applications that can run on smart phones, tablets and other devices. Explore user interface (UI) considerations for Android devices. Use Java and XML to write object-oriented programs emphasizing the use of classes, abstraction and inheritance, controller and delegate patterns, and core objects used in the Android software development kit. (A, CSU)



- 66 BEGINNING C++ PROGRAMMING**  
**4 units, 4 lecture hours, 1 lab hour,**  
**(Formerly Information Systems 36)**  
 ADVISORY: Computer Information Technology 15. Eligibility for English 1A recommended.  
 Software development using the C++ programming language. Emphasis on object-oriented design, computations, strings, pointers, functions, classes, and objects. (A, CSU, UC)
- 69 IOS PROGRAMMING APPLICATIONS**  
**4 units, 4 lecture hours, 1 lab hour**  
 COREQUISITE: Computer Information Technology 70.  
 An introduction to software development for the iOS (Apple) platform. Create iOS applications that can run on the iPhone, iPod Touch, or the iPad. Explore user interface (UI) considerations for Apple devices. Use Objective-C, Cocoa Framework and Xcode to write object-oriented programs emphasizing the use of classes, abstraction and inheritance, controller and delegate patterns, and core objects used in the iOS software development kit. (A, CSU)
- 70 BEGINNING SWIFT PROGRAMMING**  
**4 units, 4 lecture hours, 1 lab hour**  
 ADVISORY: Eligibility for English 1A recommended.  
 An introduction to programming using the Swift language. Emphasis on fundamentals including computation, control structures, functions, classes, object-oriented design, inheritance, and algorithm performance. Preparation for software development on the macOS and iOS platforms. (A, CSU, UC)
- 80 INTERNET BASICS**  
**2 units, 4 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 7 and 40)**  
 PREREQUISITE: None.  
 Introduction to the Internet and the World Wide Web, including the use of e-mail, discussion boards, browser basics, FTP, searching the Web, History of the Internet, Internet ethics, e-commerce, and Netiquette. (A, CSU)
- 82 INTRODUCTION TO WEB DEVELOPMENT**  
**3 units, 3 lecture hours, 1 lab hour**  
 PREREQUISITE: Computer Information Technology 15.  
 Survey of contemporary web technologies in authoring, distributing, and browsing. Topics include: web servers, scripting, protocols, E-Commerce, information architecture, website traffic analysis, search engine optimization, and website usability. (A, CSU)
- 84 WEB DEVELOPMENT FRAMEWORKS**  
**4 units, 4 lecture hours, 1 lab hour**  
 PREREQUISITE: Computer Information Technology 93.  
 A survey of various web development frameworks to significantly simplify the web development process. Using frameworks to automate web development activities. (A, CSU)
- 85 HTML AND CSS**  
**3 units, 3 lecture hours, 1 lab hour**  
 PREREQUISITE: Computer Information Technology 15.  
 Design web pages for the Internet using a web page design language. (A, CSU)
- 90 BEGINNING GO LANGUAGE PROGRAMMING**  
**4 units, 4 lecture hours, 1 lab hour,**  
**(Formerly Information Systems 28)**  
 PREREQUISITE: None.  
 An introduction to the Go programming language, which is an open-source modern language associated with developing fast, efficient, and scalable web applications. (A, CSU)
- 93 JAVASCRIPT**  
**4 units, 4 lecture hours, 1 lab hour**  
 PREREQUISITE: Computer Information Technology 15.  
 Fundamentals of JavaScript to add interactivity to web pages and web sites on the Internet. Topics include writing functions, using data from forms, buttons, menus, and text boxes, and using if conditional statements and program loops to make web pages "smarter". (A, CSU)
- 94 NODE.JS**  
**4 units, 4 lecture hours, 1 lab hour**  
 ADVISORY: Computer Information Technology 93. Eligibility for English 1A recommended.  
 Creating dynamic web pages from a server side perspective. Creating server side scripting applications in Node.js. Scripting fundamentals and database connectivity. Exception handling, debugging, testing, and maintenance. Document Object Model. (A, CSU)
- 95 INTRODUCTION TO PYTHON PROGRAMMING**  
**4 units, 4 lecture hours, 1 lab hour**  
 PREREQUISITE: Computer Information Technology 15. ADVISORY: Eligibility for English 1A recommended.  
 Using Python programming language, involves activities such as analysis, understanding, solving problems using algorithms, correctness and resource requirements, coding of algorithm in proper syntax, testing, debugging, maintaining source code, documenting and implementation of the built system and its management. (A, CSU)

**97 WEB DEVELOPMENT WITH THE GO PROGRAMMING LANGUAGE****4 units, 4 lecture hours, 1 lab hour**

ADVISORY: Computer Information Technology 90.

Using the Go programming language to create web applications at scale in addition to creating web API's, micro-services, and other distributed services. (A, CSU)

**99 INTRODUCTION TO MACHINE LEARNING****4 units, 4 lecture hours, 1 lab hour**

PREREQUISITE: Computer Information Technology 94.

A broad introduction to machine learning, datamining, and statistical pattern recognition. Neural models will be created to find patterns in large data sets using Tensorflow. (A, CSU)

**161 MICROSOFT WINDOWS SKILL****1 unit, 0.5 lecture hour, 1.5 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: None.

Intended for students new to Microsoft Windows or with existing knowledge using an older version of Windows. Designed to improve current skills and learn additional features of Windows Explorer. (A)

**202 INTRODUCTION TO ONLINE LEARNING****1 unit, 1 lecture hour, 3 lab hours, (9 weeks), (Pass/No Pass)**

PREREQUISITE: None.

Learn the skills necessary to improve performance in classes online.

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**COMPUTER SCIENCE (CSCI)**


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**1 INTRODUCTION TO PROGRAMMING CONCEPTS AND METHODOLOGIES****3 units, 2.5 lecture hours, 2 lab hours**

PREREQUISITE: Mathematics 103. ADVISORY: Eligibility for English 1A recommended.

Introduction to computer science with emphases on critical thinking skills and programming concepts. Topics include deductive reasoning, computer hardware and software, programming concepts and methodology. The course is designed to prepare students with little or no programming experience for CSCI 40. The course satisfies the Computer Familiarity requirement. (C-ID COMP 112) (A, CSU, UC)

**26 DISCRETE MATHEMATICS FOR COMPUTER SCIENCE****4 units, 3.5 lecture hours, 2 lab hours**

PREREQUISITE: Computer Science 40 and Mathematics 5A.

ADVISORY: Eligibility for English 1A recommended.

Elements of discrete mathematics which have applications to computer science. Topics include sets, propositional and predicate logic, relations and functions, mathematical induction, graphs, and trees. (C-ID COMP 152) (A, CSU-GE, UC, I)

**40 PROGRAMMING CONCEPTS AND METHODOLOGY I****4 units, 3.5 lecture hours, 2 lab hours,****(Formerly Mathematics 30A and Computer Science 30A)**

PREREQUISITE: Mathematics 103 or equivalent. COREQUISITE: Mathematics 4A or equivalent. ADVISORY: Eligibility for English 1A, and Computer Science 1 recommended.

Introduction to problem solving, algorithm development, procedural and data abstraction using the C++ language; program design, coding, debugging, testing, and documentation. (C-ID COMP 122) (A, CSU, UC)

**41 PROGRAMMING CONCEPTS & METHODOLOGY II****4 units, 3.5 lecture hours, 2 lab hours,****(Formerly Mathematics 30B and Computer Science 30B)**

PREREQUISITE: Computer Science 40 and Mathematics 4A, or equivalent. ADVISORY: Eligibility for English 1A recommended.

Programming methodology, program correctness, and review of data types; data structures; linear and nonlinear structures, lists, stacks, queues, trees, and files; implementation of data structures; recursion, searching, and sorting. C++ language is used. (C-ID COMP 132) (A, CSU, UC)

**45 COMPUTER ARCHITECTURE AND ORGANIZATION****4 units, 3.5 lecture hours, 2 lab hours**

PREREQUISITE: Computer Science 40.

Introduction to functional organization of digital computers and low level programming; internal representation of data, binary arithmetic, machine instructions, addressing modes, subroutine linkage, macros and interrupts, PC Assembly language programming. (A, CSU, UC)

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**CONSTRUCTION – CARPENTRY (CONS)**


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**14 BUILDING INSPECTION**

**3 units, 3 lecture hours, (Formerly Building Code and Safety Administration 14)**

ADVISORY: Eligibility for English 1A recommended.

Familiarization with inspections of residential one and two-family dwellings and type V construction, in preparation for I.C.C. Building Inspector certification. (A, CSU)

**18 CALIFORNIA DISABLED ACCESS REGULATIONS**

**3 units, 3 lecture hours, (Formerly Building Code and Safety Administration 18)**

ADVISORY: Eligibility for English 1A recommended.

Familiarization with disabled access codes in California Code of Regulations, Title 24, Part 2, Federal Americans with Disabilities Act of 1990 and Federal Fair Housing Act Amendments of 1988. (A, CSU)

**50 BASIC RESIDENTIAL CONSTRUCTION**

**4 units, 3 lecture hours, 4 lab hours**

ADVISORY: Eligibility for English 1A and Applied Technology 130 or Mathematics 201 recommended.

General introductory and basic skills in residential construction. Emphasis on hand and power tool use. Foundations, framing, roofing, interior and exterior finish techniques and materials. (A, CSU)

**50A BASIC RESIDENTIAL CONSTRUCTION**

**3 units, 2 lecture hours, 3 lab hours, (Formerly Construction 50)**

ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

This course provides students with general basic residential construction knowledge and skills including guided hands on practice using hand and power tools to complete simple construction projects including, but not limited to: Concrete, framing and roofing. (A, CSU)

**50B BASIC RESIDENTIAL CONSTRUCTION**

**3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

General introductory and basic skills in residential construction. Emphasis on hand and power tools, interior and exterior finish, finish carpentry, and roofing. (A, CSU)

**51 RESIDENTIAL CONSTRUCTION: FOUNDATIONS AND FRAMING**

**9 units, 4 lecture hours, 16 lab hours, (Formerly Construction 51/52)**

ADVISORY: Construction 50A or 50. Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Hands-on construction of a residential house including construction of foundation forms, installation of rough plumbing, placement and finishing of concrete, lay out and construction of wall framing, placement of roof trusses and construction of associated roof framing, and the application of roofing material. (A, CSU)

**52A INTRODUCTORY CONSTRUCTION MANAGEMENT 1**

**9 units, 4 lecture hours, 16 lab hours**

ADVISORY: Construction 51 and 53 and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Learn basic construction management skills while taking on the role of lead carpenter during the construction of a home in our community. (A, CSU)

**52B INTRODUCTORY CONSTRUCTION MANAGEMENT 2**

**9 units, 4 lecture hours, 16 lab hours**

ADVISORY: Construction 51 and 53 and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Students will learn basic construction management skills while taking on the role of lead carpenter during the construction of the construction program's project house or residential related projects. (A, CSU)

**53 RESIDENTIAL CONSTRUCTION: EXTERIOR AND INTERIOR FINISH**

**9 units, 4 lecture hours, 16 lab hours, (Formerly Construction 53/54)**

ADVISORY: Construction 50 or 50B. Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Hands on construction of a residential house, including window and door installation, stucco lathing, siding installation, drywall hanging and finishing, cabinet and hardware installation, finish carpentry, interior and exterior painting, fencing, and concrete flat work including driveways and walks. (A, CSU)

**55 ROOF FRAMING SYSTEMS****2.5 units, 1 lecture hour, 5 lab hours**

ADVISORY: Construction 50 or 50A. Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Introduction to conventional and truss roof framing in residential construction including hands on construction of roof structures. You will learn about load path and structural integrity. Includes methods to calculate rafter, hip and other roof framing member lengths. (A, CSU)

**56A RESIDENTIAL PLUMBING 1****3 units, 2 lecture hours, 4 lab hours**

COREQUISITE: Construction 56AL. ADVISORY: Construction 50 or 50A. Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Learn to design and install a residential waste, supply water and gas system by hands on installation in a home being built on a permanent site. You will also learn how the plumbing code affects how you design and install your plumbing work. Familiarization with the uniform plumbing code including inspection of systems leading to possible I.A.P.M.O. and or I.C.C. certification. (A, CSU)

**56AL RESIDENTIAL PLUMBING LAB 1****0.5 unit, 1.5 lab hours**

COREQUISITE: Construction 56A. ADVISORY: Construction 50 or 50A. Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Off campus lab activity installing plumbing systems in the Fresno City College Project House. To be taken concurrently (same semester) with Construction 56A. (A, CSU)

**56B RESIDENTIAL PLUMBING 2****3 units, 2 lecture hours, 4 lab hours**

COREQUISITE: Construction 56BL. ADVISORY: Construction 50 or 50A. Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Correct installation techniques for residential finish plumbing fixtures and the code requirements associated with them. Familiarization with the uniform plumbing code including inspection of systems leading to possible I.A.P.M.O. and or I.C.C. certification. Construction 56B to be taken concurrently (same semester) with Construction 56BL. (A, CSU)

**56BL RESIDENTIAL PLUMBING LAB 2****0.5 unit, 1.5 lab hours**

COREQUISITE: Construction 56B. ADVISORY: Construction 50 or 50A. Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Off campus lab activity installing plumbing systems in the Fresno City College project house. To be taken concurrently (same semester) with Construction 56B. (A, CSU)

**60 ENERGY EFFICIENT REMODELING****8 units, 4 lecture hours, 13 lab hours**

ADVISORY: Construction 50A and 50B or Construction 53 or Construction 50. Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Cosmetic and structural residential improvements with an emphasis on improving energy efficiency. Lab to be hands on in an existing home. (A, CSU)

**65 FUNDAMENTAL CONSTRUCTION ELEMENTS****3 units, 3 lecture hours**

ADVISORY: Applied Technology 130. Eligibility for English 1A recommended.

Introductory skills in residential construction including OSHA 10 certification, basic drafting, computer applications, construction calculations and construction equipment. (A, CSU)

**149 INTRODUCTION TO CONSTRUCTION****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Applied Technology 130. Eligibility for English 1A recommended.

Overview of trades and careers related to the construction industry. Hands on lab activities related to selected areas of construction. (A)

**175A RESIDENTIAL WIRING 1****4 units, 3 lecture hours, 3 lab hours, (See also Electrical Systems Technology 175A)**

COREQUISITE: Construction 175AL. ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Introduction to electrical code, installation methods. Electrical circuits hands on practice. Installation of the rough electrical system in the Fresno City College construction program's project house at an off campus location. Construction 175AL must be taken concurrently with Construction 175A. (A)

**175AL RESIDENTIAL WIRING LAB 1****0.5 unit, 1.5 lab hours, (See also Electrical Systems Technology 175AL)**

COREQUISITE: Construction 175A. ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Hands on Rough Wiring of a residential building. Course must be taken concurrently with Construction 175A. (A)

**175B RESIDENTIAL WIRING 2**

**4 units, 3 lecture hours, 3 lab hours,  
(See also Electrical Systems Technology  
175B)**

COREQUISITE: Construction 175BL. ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Electrical code. Hands on finish equipment installation, trouble shooting. Specialty circuits. Installation of the finish materials in the City College construction program's project house. Construction 175BL must be taken concurrently with Construction 175B. (A)

**175BL RESIDENTIAL WIRING LAB 2**

**0.5 unit, 1.5 lab hours, (See also  
Electrical Systems Technology 175BL)**

COREQUISITE: Construction 175B. ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Students will apply classroom knowledge and gain hands on experience during installation of finish apparatus in the FCC project house. Course must be taken concurrently with Construction 175B. (A)

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**COUNSELING (COUN)**


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**43 GROUP DYNAMICS AND  
SELF-UNDERSTANDING**

**2 units, 2 lecture hours, (Formerly Guidance  
Studies 43)**

ADVISORY: Eligibility for English 1A recommended.

An in-depth look at concepts key to self-understanding and developing a support system. This includes addressing psycho-social topics such as: personal responsibility, stress-management, interpersonal skills and communication. (A, CSU)

**48 CAREER PLANNING AND DEVELOPMENT  
2 units, 2 lecture hours, (Formerly Guidance  
Studies 48)**

ADVISORY: Eligibility for English 1A recommended.

Designed to guide students in choosing their career fields and correlated majors, includes self assessment, career exploration, occupational outlook, computerized resources and career information systems. (A, CSU)

**53 COLLEGE AND LIFE MANAGEMENT  
3 units, 3 lecture hours, (Formerly Guidance  
Studies 53)**

ADVISORY: Eligibility for English 1A recommended.

This course is designed to assist students in developing the necessary tools for future success by providing structures and activities that illustrate the relationship between interpersonal and intrapersonal interactions. Course topics include development of student's personal strengths, interpersonal relationships, personal values, healthy lifestyle choices, and success skills. (A, CSU, UC)

**54 CIVIC RESPONSIBILITY AND LEADERSHIP  
1 unit, 1 lecture hour, (Formerly Guidance  
Studies 54)**

ADVISORY: Eligibility for English 1A recommended.

Designed to assist students with the transition process from college to other life roles. Understanding role responsibilities to self and the community. Soft skills, leadership development, and life planning. (A, CSU, UC)

**150 COLLEGE TRANSITION AND SUCCESS  
1 unit, 1 lecture hour, (Formerly Guidance  
Studies 50, 150, and Counseling 250)**

ADVISORY: Eligibility for English 125 and 126 recommended.

Designed to provide students with personal and academic support during their transition onto the campus and campus culture. Resources and learner-centered strategies include supportive services, self-assessment, time management, campus resources, catalog information, educational planning, career awareness, interdependence, personal responsibility and many others that will help students with academic growth, personal growth, retention, persistence and success. (A)

**247A COLLEGE STUDY SKILLS, GENERAL  
HABITS**

**1 unit, 2 lecture hours, (9 weeks), (Formerly  
Guidance Studies 47A, 52, and 147A)**

ADVISORY: Eligibility for English 125 and 126 recommended.

Establishing effective success strategies such as study habits, goal-setting, time and life management, improving concentration, active listening, college resources and educational planning.

**247B COLLEGE STUDY SKILLS, ACADEMIC  
SKILLS**

**1 unit, 2 lecture hours, (9 weeks), (Formerly  
Guidance Studies 47B, 52, and 147B)**

ADVISORY: Eligibility for English 125 and 126 recommended.

Designed to help students establish academic skills to be successful in college. Topics include; study-skills strategies for lecture and textbook note taking, memorization techniques, test taking strategies and other study methods.

**249 JOB PREPARATION**

**1 unit, 1 lecture hour, (Formerly Guidance Studies 49 and 149)**

ADVISORY: Eligibility for English 125 and 126 recommended.

Development of positive interpersonal relationships in the workplace. Includes practicing interview techniques and positive workplace behaviors, exploring career implications and the job market.

**350 COLLEGE TRANSITION AND SUCCESS**

**1 lecture hour, (Open Entry/Open Exit)**

PREREQUISITE: None.

Designed to provide students with personal and academic support during the transition to the campus and campus culture. Resources and learner-centered strategies include supportive services, self-assessment, time management, campus resources, catalog information, educational planning, career awareness, interdependence, personal responsibility and many others that will help students with academic growth, personal growth, retention, persistence and success.

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**CRIMINOLOGY (CRIM)**

FORMERLY ADMINISTRATION OF JUSTICE

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**1 INTRODUCTION TO CRIMINOLOGY**

**3 units, 3 lecture hours, (Formerly Administration of Justice 1)**

PREREQUISITE: None.

Characteristics of the criminal justice system in the U.S. with cross cultural content; evolution of prevailing principles; crime measurement; theoretical explanations for criminality and responses to it; future challenges; functions of the police, courts and correctional system; legal process, sentencing, and incarceration policies. (C-ID AJ 110) (A, CSU, UC)

**3 LEGAL ASPECTS OF EVIDENCE**

**3 units, 3 lecture hours, (Formerly Administration of Justice 3)**

ADVISORY: Eligibility for English 1A recommended.

Categories of evidence, and the legal rules relating to admission or exclusion with attention to history and development. (C-ID AJ 124) (A, CSU)

**4 PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM**

**3 units, 3 lecture hours, (Formerly Administration of Justice 4)**

ADVISORY: Eligibility for English 1A recommended.

Examination and analysis of due process in the criminal justice system from pre-arrest through trial and appeal using statutory, case law, and constitutional precedents. (C-ID AJ 122) (A, CSU)

**5 COMMUNITY RELATIONS**

**3 units, 3 lecture hours, (Formerly Administration of Justice 5)**

ADVISORY: Eligibility for English 1A recommended.

Relationship between our communities and the justice system in addressing crime and conflict; challenges and potential for administering criminal justice within a multicultural society with conflicting values in culture, religion, and law. (C-ID AJ 160) (A, CSU, UC)

**6 CONCEPTS OF CRIMINAL LAW**

**3 units, 3 lecture hours, (Formerly Administration of Justice 6)**

ADVISORY: Eligibility for English 1A recommended.

Analysis of criminal liability in the U.S.; classification of crimes (persons, property, morals, and public welfare), elements of offenses; common and statutory law; acceptable evidence; defenses; prosecution and defense decision making. (C-ID AJ 120) (A, CSU, UC)

**7 CONCEPTS OF ENFORCEMENT SERVICES**

**3 units, 3 lecture hours, (Formerly Administration of Justice 7)**

PREREQUISITE: None.

Role expectations for line enforcement officers; patrol, traffic and public service responsibilities; physical and psychological officer survival. (A, CSU)

**8 CRIMINAL INVESTIGATION**

**4 units, 3 lecture hours, 3 lab hours, (Formerly Administration of Justice 8)**

PREREQUISITE: None.

Techniques, procedures, and ethical considerations involved in crime investigation; organization of the process; crime scene logistics; searches; recovery and preservation of evidence; documentation; scientific examination; and trial presentation. (C-ID AJ 140) (A, CSU)

**9 CRIME SCENE FORENSIC EVIDENCE**

**3 units, 3 lecture hours**

PREREQUISITE: Criminology 8 or equivalent. ADVISORY: Eligibility for English 1A recommended.

Introduction to forensics in criminal investigations; methods to properly locate, identify, handle, and analyze physical evidence; analysis of crime scenes; pattern evidence; instruments firearms; questioned documents; and controlled substances. (C-ID AJ 150) (A, CSU)

- 11 JUVENILE DELINQUENCY**  
**3 units, 3 lecture hours, (Formerly Administration of Justice 11)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Origin, development and organization of the juvenile justice system in the U.S.; theories relating to the causes and prevention of juvenile delinquency, and the treatment of youthful offenders; legal processes and constitutional standards. (C-ID AJ 220) (A, CSU)
- 12 CRIMINAL JUSTICE COMMUNICATIONS**  
**3 units, 3 lecture hours, (Formerly Administration of Justice 12)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Fundamentals of information gathering; preparation of public safety reports, testifying; formal and informal communication with public and official agencies. (A, CSU)
- 13 THE CONSTITUTION AND YOUR INDIVIDUAL RIGHTS**  
**3 units, 3 lecture hours, (Formerly Administration of Justice 13)**  
 ADVISORY: Eligibility for English 1A recommended.  
 History and development of the Constitution; analysis of notable cases; historic protection of individual rights; ability of government to limit those prerogatives. (A, CSU-GE, UC)
- 15 INTRODUCTION TO POLICE ETHICS**  
**3 units, 3 lecture hours, (Formerly Administration of Justice 15)**  
 PREREQUISITE: None.  
 Examination of issues relating to ethical standards and violations in the criminal justice system; practical and theoretical solutions; morality and ethics in human behavior. (A, CSU)
- 16 INTRODUCTION TO VICTIMOLOGY**  
**3 units, 3 lecture hours, (Formerly Administration of Justice 16)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Philosophical, theoretical issues and analysis of the most recent research findings and their implications in relationship to victims of street crimes. Controversies surrounding victims and their relations with offenders, media, agencies, etc. (A, CSU)
- 18 THE PSYCHOLOGY OF CRIMINAL BEHAVIOR**  
**3 units, 3 lecture hours, (See also Psychology 18)**  
 ADVISORY: English 1A.  
 Focus on the biological, psychological, developmental, social, and cultural factors that influence the development of criminal behavior. Understand the relationship between psychological disorders outlined in the current Diagnostic and Statistical Manual of Mental Disorders, as well as psychopathy and sociopathy, and their influence on the development of criminal behavior. Explore the relationship between social inequities and the criminal justice system. Discuss the extent to which therapy and/or rehabilitation affects recidivism rates. (A, CSU)
- 19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL**  
**1-8 units**  
 COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors. Selection for program participation. ADVISORY: Eligibility for English 1A recommended.  
 Supervised employment extending the classroom based on occupational learning related to criminology. Collaborative learning objectives established specific to criminology. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)
- 20 INTRODUCTION TO CORRECTIONS**  
**3 units, 3 lecture hours, (Formerly Administration of Justice 20)**  
 ADVISORY: Eligibility for English 1A recommended.  
 History and analysis of the methods of punishment; alternatives to them, and their impact upon the justice system and its correctional component; adult and juvenile corrections (probation and parole); examination of penal institutions, their populations, and contemporary issues; alternative programs designed for specific Correctional Institutions, and their impact upon the Corrections client and the society at large. (C-ID AJ 200) (A, CSU)
- 23 CORRECTIONAL INTERVIEWING AND COUNSELING**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 An overview of the techniques in counseling and interviewing available to practitioners in corrections. The use of appropriate techniques and theories in confidence building which may be used by the correctional employee in client interviews and counseling. For students planning to enter or already employed within the correctional science field. (A, CSU)

**24 CONTROL AND SUPERVISION IN CORRECTIONS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

An overview of supervision of inmates in local, state, and federal correctional institutions. Issues of institutional control in a continuum from daily living through crisis situations. Emphasis on the role played by the offender and the correctional worker. Inmate subculture, violence, and the officers in a hostile prison environment. The causes and effects of abusive tactics. (A, CSU)

**25 LEGAL ASPECTS OF CORRECTIONS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

The historical framework, concepts and precedents that guide correctional practice. The corrections environment, the civil rights of prisoners, and the responsibilities and liabilities of corrections officials. (A, CSU)

**28 PROBATION AND PAROLE****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Examine the history, development, and current practices of probation and parole, analyze the current trends and issues of community-based corrections and alternatives for offenders. (A, CSU)

**36 GANGS AND CORRECTIONS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Specialized knowledge relating to the correctional impact of gangs. The history of gangs and the issues associated with the development of gangs. Focus on the emergence of prison gangs following a series of changes within correctional systems. Review of the types of gangs and the criminal activities associated with the gang. Special emphasis on the prison gang and correctional issues including identification, intake, classification, communication, and trends. Psychological and sociological dynamics. Institutional management and future trends. (A, CSU)

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**DANCE (DANCE)**


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**8 HIP HOP TECHNIQUE****1 unit, 3 lab hours**

PREREQUISITE: None.

Basic technique and style of Hip Hop dance both historical and current emphasizing musicality, rhythms, and the basic movement required to develop Beginning Hip Hop skills. (A, CSU, UC)

**8B INTERMEDIATE HIP HOP TECHNIQUE****1 unit, 3 lab hours**

PREREQUISITE: Dance 8.

Intermediate technique and style of Hip Hop dance both historical and current emphasizing musicality, rhythms, and the movement required to develop intermediate Hip Hop skills. (A, CSU)

**9 DANCE CONDITIONING****1 unit, 3 lab hours**

PREREQUISITE: None.

Conditioning techniques which promote body awareness, improve body alignment, enhance and expedite body ability for dance skills, and aid in preventing injuries common to various dance styles. (A, CSU, UC)

**10A BEGINNING MODERN DANCE TECHNIQUE****1 unit, 3 lab hours, (Formerly Physical Education 4 and Dance 10)**

PREREQUISITE: None.

Modern dance exercises and improvisations involving body movement, rhythm, design, dynamics, technique, and expression. Body conditioning exercises for posture, strength, and flexibility. (A, CSU, UC)

**10B PRE-INTERMEDIATE MODERN DANCE TECHNIQUE****1 unit, 3 lab hours**

PREREQUISITE: Dance 10A or appropriate dance experience as determined by the instructor.

Pre-intermediate modern dance exercises and improvisations involving body movement, rhythm, design, dynamics, technique, and expression. Body conditioning exercises for posture, strength, and flexibility. (A, CSU, UC)

**12A BEGINNING BALLET PART 1****1 unit, 3 lab hours, (Formerly Dance 12 and Physical Education 26)**

PREREQUISITE: None.

Fundamental technique of classical Ballet using barre exercises and center work, basic concepts of Ballet dance vocabulary, and Ballet terminology for the beginning student. (A, CSU, UC)

**12B BEGINNING BALLET PART 2****1 unit, 3 lab hours**

PREREQUISITE: Dance 12A.

Pre-intermediate-level technique of classical Ballet using barre exercises and center work, learning more Ballet technique and terminology for the pre-intermediate students. (A, CSU, UC)



**13A INTERMEDIATE BALLET TECHNIQUE****1.5 units, 1 lecture hour, 2 lab hours**

PREREQUISITE: Dance 12B or appropriate dance experience as determined by instructor.

Intermediate level Ballet technique using barre exercises and center works, may include a demonstration of creating and teaching a ballet phrase in the class. (A, CSU, UC)

**13B PRE-ADVANCED BALLET TECHNIQUE****1.5 units, 1 lecture hour, 2 lab hours**

PREREQUISITE: Dance 13A or appropriate dance experience as determined by instructor.

Pre-advanced Ballet technique using barre exercises and center works, may include a demonstration of creating and teaching a ballet phrase and a short combination in the class. (A, CSU, UC)

**14 BEGINNING JAZZ DANCE TECHNIQUE****1 unit, 3 lab hours, (Formerly Physical Education 27)**

PREREQUISITE: None.

Fundamental technique of Jazz dance, utilizing basic steps and isolated body parts; conditioning exercises for strength, flexibility, balance, and alignment done in a rhythmic form of jazz and other contemporary music. (A, CSU, UC)

**15 INTERMEDIATE JAZZ DANCE TECHNIQUE****1 unit, 3 lab hours**

PREREQUISITE: Dance 14 or demonstration of comparable skill level to be determined by testing or video portfolio of past jazz dance performance work.

A progressive refinement of jazz dance technique, building upon skills and techniques covered in Dance 14. Presentation of different jazz styles. (A, CSU, UC)

**16 BEGINNING TAP DANCE****0.5 unit, 2 lab hours**

PREREQUISITE: None.

An introduction of various tap styles, sequences, and dance patterns to develop rhythm, coordination, and balance. (A, CSU, UC)

**17A BEGINNING MEXICAN FOLK DANCE****3.5 units, 3 lecture hours, 2 lab hours,  
(See also Chicano-Latino Studies 17A),  
(Formerly Dance 17)**

ADVISORY: Eligibility for English 1A recommended.

History and origin of Mexican dance, from the pre-Columbian era through the arrival of the Spaniards. Analysis of the form, function, and symbolism of the music, musical instruments, movements, and choreography. Examination of the role of gender in this art form. Dances practiced and performed at the beginning level. (A, CSU-GE, UC)

**17B BEGINNING INTERMEDIATE MEXICAN FOLK DANCE****3.5 units, 3 lecture hours, 2 lab hours, (See also Chicano-Latino Studies 17B)**

PREREQUISITE: Chicano-Latino Studies/Dance 17A. Demonstrated experience and skills at the beginning level as assessed by instructor. ADVISORY: Eligibility for English 1A recommended.

History and origin of Mexican dance, from the pre-Columbian era through the arrival of the Spaniards. Analysis of the form, function, and symbolism of the music, musical instruments, movements, and choreography. Examination of the role of gender in this art form. Dances practiced and performed at the pre-intermediate level. (A, CSU, UC)

**18 INTERMEDIATE TAP DANCE****0.5 unit, 2 lab hours**

PREREQUISITE: Dance 16 or appropriate previous tap dance experience as determined by the instructor.

Progressive refinement of tap dance technique, building upon skills and techniques covered in Dance 16. Presentation of more advanced tap steps and styles. (A, CSU, UC)

**20A BEGINNING MODERN DANCE COMPOSITION****3 units, 2 lecture hours, 3 lab hours,  
(Formerly Physical Education 20A)**

ADVISORY: Dance 10A.

Modern dance technique warm up and exercises for development of movement vocabulary, strength, flexibility, alignment, range of motion, and rhythmic coordination. Guided group improvisations will be used for development of personal movement vocabulary, creative outlet, and to hone in on basic improvisational skills. Study of modern dance as an art form including brief discussions on history and theory. Study of dance composition theories and conceptual approaches. Creation of solo and group work. (A, UC)

**20B INTERMEDIATE MODERN DANCE COMPOSITION****3 units, 2 lecture hours, 3 lab hours,  
(Formerly Physical Education 20B)**

PREREQUISITE: Dance 20A.

Modern dance technique warm up and exercises for development of movement vocabulary, strength, flexibility, alignment, range of motion, and rhythmic coordination. Guided group improvisations will be used for development of personal movement vocabulary, creative outlet, and to hone in on intermediate improvisational skills. Dance composition theories and conceptual approaches. Creation of solo and group work on a complex and multi-dimensional level. Hone in on one's own artistic voice and to be able to articulate their reasons for creation in an intelligent, comprehensive manner. (A, CSU, UC)

**21 FALL DANCE CONCERT 1**

**2-4 units, 1 lecture hour, 3-9 lab hours per unit, (Formerly Physical Education 21)**

PREREQUISITE: For Choreographers: Demonstration of comparable skill level to be determined by Artistic Director through testing and/or video portfolio of past Modern Dance, Jazz, or Ballet performance work. For Performers: previous Modern dance, Jazz, or Ballet experience or concurrent enrollment in Ballet, Jazz, or Modern dance.

Beginning dance technique and conditioning, improvisation, choreography, rehearsal, and performance on main stage in an informal setting. Diagnostic test in dance technique will be given during the first three weeks of the semester. Includes opportunities for support activities for the production. (A, CSU, UC)

**22 SPRING DANCE CONCERT 1**

**2-4 units: 2 units, 1 lecture hour, 3 lab hours; 3 units, 1 lecture hour, 6 lab hours; 4 units, 1 lecture hour, 9 lab hours, (Formerly Physical Education 22)**

PREREQUISITE: For Choreographers: Demonstration of comparable skill level to be determined by Artistic Director through testing and/or video portfolio of past Modern Dance, Jazz, or Ballet performance work. For Performers: Current intermediate competency in Ballet, Jazz, or Modern Dance or concurrent enrollment in Ballet, Jazz or Modern Dance.

Intermediate level dance technique, conditioning, improvisation, choreography, rehearsal, and performance on main stage in a formal theatrical presentation. Participants need to demonstrate their technical level during the first three weeks of classes. (A, CSU, UC)

**26 AMERICAN COLLEGE DANCE FESTIVAL**

**1.5 units, 2 lecture hours, 5 lab hours, (9 weeks), (Repeats = 3)**

COREQUISITE: Dance 21, 22, 31, or 32.

Preparation of dance participants for attendance at the American College Dance Festival. Participation in master classes and participation/attendance at adjudication concerts. Participation/coordination of FCC National Dance Day Event. (A, CSU)

**27A INTERMEDIATE MEXICAN FOLK DANCE**

**3.5 units, 3 lecture hours, 2 lab hours, (See also Chicano-Latino Studies 27A)**

PREREQUISITE: Chicano-Latino Studies/Dance 17B. Demonstrated experience and skills at the beginning level as assessed by instructor. ADVISORY: Eligibility for English 1A recommended.

History of the origin of Mexican dance, from the arrival of the Spaniards to the present time. Analysis of the form, function, and symbolism of the music, musical instruments, movements and choreographies. Dances practiced and performed at the intermediate level. (A, CSU, UC)

**27B ADVANCED MEXICAN FOLK DANCE**

**3.5 units, 3 lecture hours, 2 lab hours, (See also Chicano-Latino Studies 27B), (Formerly Dance 27)**

PREREQUISITE: Chicano-Latino Studies/Dance 27A. ADVISORY: Eligibility for English 1A recommended.

History of the origin of Mexican dance, from the arrival of the Spaniards to the present time. Analysis of the form, function, and symbolism of the music, musical instruments, movements and choreographies. Dances practiced and performed at the advanced level. (A, CSU-GE, UC)

**28A INTERMEDIATE MODERN DANCE TECHNIQUE**

**1.5 units, 1 lecture hour, 2 lab hours, (Formerly Dance 28.)**

PREREQUISITE: Dance 10B.

Intermediate-level modern dance, emphasis on inverted movement, fast-pace locomotor patterns, and weight sharing. (A, CSU, UC)

**28B PRE-ADVANCED MODERN DANCE TECHNIQUE**

**1.5 units, 1 lecture hour, 2 lab hours**

PREREQUISITE: Dance 28A.

Pre-Advanced-level modern dance, emphasis honing previous skills including a variety of locomotor patterns, creativity, and deeper understanding of modern dance concepts. (A, CSU, UC)

**30 DANCE APPRECIATION**

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Survey of dance as a historical form of cultural and theatrical expression. Emphasis on the growth of ballet, modern, and jazz dance from their origins to the current trends in the United States. Dance 30 does not meet the Physical Education requirement. (A, CSU-GE, UC, I)

**31 FALL DANCE CONCERT 2**

**2-4 units, 1 lecture hour, 3-9 lab hours**

PREREQUISITE: Dance 21.

Intermediate-advanced dance technique and conditioning, improvisation, choreography, rehearsal, and performance in an informal setting. Includes opportunities for support activities for the production. (A, CSU, UC)

**32 SPRING DANCE CONCERT 2**

**2-4 units, 1 lecture hour, 3-9 lab hours**

PREREQUISITE: Dance 22.

Intermediate/advanced-level dance technique and conditioning, improvisation, choreography, rehearsal, and performance for formal theatrical presentation. Includes opportunities for support activities for the production. (A, CSU, UC)

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**DECISION SCIENCE (DS)**


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**10 INTRODUCTION TO DATA SCIENCE****3 units, 3 lecture hours**

ADVISORY: English 1A or 1AH.

This course is an introductory course for understanding how data drives decisions. Changing data into information using mining, trending, modeling, learning, and predicting techniques. (A, CSU, UC)

**21 FINITE MATHEMATICS****3 units, 3 lecture hours, (Formerly Decision Science 22)**

PREREQUISITE: Mathematics 103 or placement by multiple measures. ADVISORY: Eligibility for English 1A recommended.

Applications of linear, exponential, and logarithmic functions, matrix operations, and inverse matrices. Linear programming techniques, mathematics of finance, probability, and counting theory. Limits, rates of change, and derivatives. (A, CSU-GE, UC, I)

**23 BUSINESS STATISTICS****3 units, 3 lecture hours, 1 lab hour, (Formerly Business Administration 23)**

PREREQUISITE: Mathematics 103 or placement by multiple measures.

The use of probability and predictive techniques to facilitate decision-making using data from disciplines including business, social sciences, psychology, life sciences, health sciences, and education. The analysis will incorporate the use of EXCEL/Other Statistical Software and a graphing calculator. Descriptive measures including central tendency and dispersion, probability theory, discrete and continuous probability distributions, sampling distributions, central limit theorem, time series, index numbers, statistical inference using one and two sample hypothesis tests using both the normal and t distributions for both means and proportions, estimation, correlation, regression, analysis of variance (ANOVA), and nonparametric methods including Chi-squared. (C-ID MATH 110) (A, CSU-GE, UC, I)

**25 BUSINESS ANALYTICS****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Decision Science 23, Mathematics 11, Mathematics 42, or Psychology 42.

Deeper dive into topics introduced in introductory statistics and data sciences courses with an emphasis on application to real-world problems. (A, CSU, UC)

**40 INTRODUCTION TO R PROGRAMMING FOR DATA SCIENCE****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Decision Science 23, Mathematics 11, Mathematics 42, or Psychology 42.

Learn to program using the R programming language to manipulate data and summarize it using statistical and graphical functions. (A, CSU, UC)

**44 INTRODUCTION TO PREDICTIVE MODELING****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Decision Science 21 and 23.

Predictive analytics project life cycles, data preparation, feature design, and model deployment. (A, CSU, UC)

**55 VISUALIZING DATA****3 units, 3 lecture hours, 1 lab hour**

PREREQUISITE: Decision Science 23, Mathematics 11, Mathematics 42, or Psychology 42.

Learn to create a variety of dashboard and graphics to display data using a variety of software packages such as Tableau, R or Python. (A, CSU)

**221 SUPPORT FOR FINITE MATHEMATICS****1 unit, 0.5 lecture hour, 1.5 lab hours**

COREQUISITE: Decision Science 21.

Extends instruction in DS 21, providing additional hours of support per week. Instructor lead instruction, one-on-one tutoring. Small group and technology-enhanced instruction relating to DS 21 curriculum.

**223 SUPPORT FOR BUSINESS STATISTICS****1 unit, 0.5 lecture hour, 1.5 lab hours**

COREQUISITE: Decision Science 23.

Extends instruction in DS 23, providing three hours of additional support per week. Instructor Lecture, One-on-one tutoring. Small group and technology-enhanced instruction relating to DS 23 curriculum.

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**DENTAL ASSISTING (DA)**


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**1 PRACTICE MANAGEMENT****2 units, 2 lecture hours**

PREREQUISITE: None.

Dental office management procedures, oral and written communication, purchasing, inventory and cost control of supplies, accounts payable and receiving, insurance billing, HIPAA, treatment planning and case presentation, electronic health records, scheduling of appointments, resume and interviewing skills. Legal parameters regarding state regulations and functions of dental auxiliaries. (A, CSU)

## 2 INFECTION CONTROL FOR THE DENTAL SETTING

**2 units, 2 lecture hours, 1 lab hour**

PREREQUISITE: None.

Principles of human anatomy, histology, and physiology as it relates to the head, neck and body systems in dentistry. Microbiology as it relates to the control of infection and disease, as well as bloodborne pathogen standards including sterilization and disinfection within the dental environment. Instruction on Dental Board of California (DBC), Occupational Health and Safety Administration (OSHA) regulations, and Center for Disease Control (CDC) and American Dental Association (ADA) recommendations. (A, CSU)

## 3 DENTAL RADIOLOGY

**3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: None.

Principles of radiology including history and current concepts relating to the production and projection of film and digital dental radiographs. Physics of radiation, biologic effects, and principles of radiology safety and standard precautions associated with radiation exposure, including bitewing, bisection and paralleling techniques. Laboratory portion of study, students expose, process mount and evaluate dental radiographs for diagnostic purposes. Upon successful completion of this course and DA 3A, the student will receive their radiographic proficiency state certificate and be eligible to sit for the national radiographic proficiency examination. (A, CSU)

## 3A CLINICAL DENTAL RADIOLOGY

**1 unit, 1 lecture hour, 0.5 lab hour**

COREQUISITE: Dental Assisting 3.

Instruction in methods of exposure and evaluation of clinical diagnostic quality dental x-rays on patients. (A, CSU)

## 19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL

**1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to the student's major. Collaborative learning objectives established specific to dental assisting. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

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## DENTAL HYGIENE (DH)

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### 1A ORAL BIOLOGY

**2 units, 2 lecture hours, 1 lab hour, (Fall, first year)**

PREREQUISITE: Biology 20 and 22 or Biology 21A and 21B.

COREQUISITE: Dental Hygiene 3A, 4, and 10.

Anatomy of orofacial structures; study of the physiological and structural functions of the teeth and supporting tissues; embryology and histology of oral structural formation; oral anatomy relative to administration of local anesthetic agents. (A, CSU)

### 1B GENERAL AND ORAL PATHOLOGY

**3 units, 3 lecture hours, (Spring, first year)**

PREREQUISITE: Dental Hygiene 1A, 3A, 4, and 10. COREQUISITE:

Dental Hygiene 2, 5A, 6A, 8A, 11 and 12.

Pathologic processes; disease, inflammation, immunologic defense, degeneration, neoplasia, developmental disorders, healing and repair, recognition of normal and abnormal conditions in the oral cavity; recognition of abnormalities in the human body. (A, CSU)

### 1C PERIODONTOLOGY

**2 units, 2 lecture hours, (Fall, second year)**

PREREQUISITE: Dental Hygiene 1B, 2, 5A, 6A, 8A, 11 and 12.

COREQUISITE: Dental Hygiene 5B, 6B, 7A and 13.

Periodontal anatomy and histology; recognition of the normal and pathological periodontium, etiology and treatment of periodontal disorders; pathogenesis of inflammatory periodontal disease; periodontal examination, prognosis, and treatment planning; periodontal instrumentation; gingival curettage and other periodontal surgical procedures. (A, CSU)

### 1D APPLIED SPECIALTIES

**1.5 units, 1.5 lecture hours, (Spring, second year)**

PREREQUISITE: Dental Hygiene 1C, 5B, 6B, 7A and 13. CORE-

QUISITE: Dental Hygiene 5C, 7B, 8B, 9 and 14.

The history and relationship of dental specialties within the broad scope of dentistry. Current concepts and future possibilities relevant to the practice of dental specialties; and dental hygienist's ethical and clinical responsibility in the treatment of periodontal disorders. Relationship of the dental specialty practice of periodontics within the broad scope of dentistry. (A, CSU)

**2 DENTAL MATERIALS**

**2 units, 1 lecture hour, 3 lab hours,  
(Spring, first year)**

PREREQUISITE: Dental Hygiene 1A, 3A, 4 and 10. COREQUISITE: Dental Hygiene 1B, 5A, 6A, 8A, 11 and 12.

The properties, characteristics and use of numerous categories of materials used in dental procedures. Concepts of the dental health team with emphasis on dental hygiene care. (A, CSU)

**3A PRE-CLINICAL DENTAL HYGIENE TECHNIQUES**

**6 units, 4 lecture hours, 6 lab hours,  
(Fall, first year)**

PREREQUISITE: Biology 31 and Communication 1 or 2. COREQUISITE: Dental Hygiene 1A, 4 and 10.

Medical and dental histories; extra and intraoral examination; patient education; patient and operator positioning; asepsis and infection control procedures; use and care of instruments; patients records; clinical operations and appointment procedures; equipment maintenance and sterilization. (A, CSU)

**4 ORAL RADIOGRAPHY**

**4 units, 2 lecture hours, 6 lab hours,  
(Fall, first year)**

PREREQUISITE: Biology 31. COREQUISITE: Dental Hygiene 1A, 3A and 10.

History and physics of radiation; radiation protection; use of standard, panoramic, and computerized digital radiographic equipment; use of the intraoral camera; duplication of radiographic images; exposure, processing, mounting, and identification of standard, panoramic, and computerized radiographs and intraoral images; critiquing of oral radiographic images of normal and abnormal anatomy and artifacts; interpretation of radiographic and pictorial pathology of the hard and soft structures of the oral cavity. (A, CSU)

**5A CLINICAL DENTAL HYGIENE I**

**2.5 units, 8 lab hours, (Spring, first year)**

PREREQUISITE: Dental Hygiene 1A, 3A, 4 and 10. COREQUISITE: Dental Hygiene 1B, 2, 6A, 8A, 11 and 12.

Beginning experience in the dental hygiene process of care for treatment of pediatric, adolescent and adult patients; various clinical procedures including scaling and polishing techniques, oral inspection, dental and periodontal charting, principles of powered instrumentation, radiographic techniques, biofilm control instructions, and application of preventive agents. (A, CSU)

**5B CLINICAL DENTAL HYGIENE II**

**5 units, 16 lab hours, (Fall, second year)**

PREREQUISITE: Dental Hygiene 1B, 2, 5A, 6A, 8A, 11 and 12. COREQUISITE: Dental Hygiene 1C, 6B, 7A, and 13.

Intermediate experiences in the treatment of dental hygiene patients; includes principles and procedures of Dental Hygiene 5A plus techniques for pain management; various field experiences. (A, CSU)

**5C CLINICAL DENTAL HYGIENE III**

**5 units, 16 lab hours, (Spring, second year)**

PREREQUISITE: Dental Hygiene 1C, 5B, 6B, 7A and 13. COREQUISITE: Dental Hygiene 1D, 7B, 8B, 9 and 14.

Advanced experience in patient treatment procedures; includes principles and procedures of Dental Hygiene 5A and Dental Hygiene 5B plus the techniques of site specific chemotherapeutic agents. (A, CSU)

**6A MEDICAL EMERGENCIES IN THE DENTAL OFFICE**

**1 unit, 2 lecture hours, (9 weeks),  
(Spring, first year)**

PREREQUISITE: Dental Hygiene 1A, 3A, 4 and 10. COREQUISITE: Dental Hygiene 1B, 2, 5A, 8A, 11 and 12.

Prevention of emergency situations; management of dental and medical emergencies. CPR certification reviewed. (A, CSU)

**6B PHARMACOLOGY**

**2 units, 2 lecture hours, (Fall, second year)**

PREREQUISITE: Dental Hygiene 1B, 2, 5A, 6A, 8A, 11 and 12. COREQUISITE: Dental Hygiene 1C, 5B, 7A and 13.

Sources, dosages, therapeutic action, and side effects of drugs used in dentistry; classification, administration, and effects of drugs; pharmacology, and pharmacokinetics of drugs. (A, CSU)

**7A COMMUNITY DENTAL HEALTH I**

**2 units, 2 lecture hours, (Fall, second year)**

PREREQUISITE: Dental Hygiene 1B, 2, 5A, 6A, 8A, 11 and 12. COREQUISITE: Dental Hygiene 1C, 5B, 6B and 13.

Procedures for improving public health, community dental health, and target group selection. Introduction to biostatistics and dental research techniques. Principles of education. (A, CSU)

**7B COMMUNITY DENTAL HEALTH II**

**2 units, 2 lecture hours, (Spring, second year)**

PREREQUISITE: Dental Hygiene 1C, 5B, 6B, 7A and 13. COREQUISITE: Dental Hygiene 1D, 5C, 8B, 9 and 14.

Community dental health; implementation of target group dental health project; tobacco cessation program; health care delivery systems; presentation of dental care methods; community outreach community, fluoridation and bio-statistics. (A, CSU)

**8A PATIENT MANAGEMENT****2 units, 2 lecture hours, (Spring, first year)**

PREREQUISITE: Dental Hygiene 1A, 3A, 4 and 10. COREQUISITE: Dental Hygiene 1B, 2, 5A, 6A, 11, and 12.

Patient characteristics, motivation, and management; interpersonal communication and treatment planning. Treatment of the compromised patient. (A, CSU)

**8B PRACTICE AND FINANCIAL MANAGEMENT**  
**2 units, 2 lecture hours, (Spring, second year)**

PREREQUISITE: Dental Hygiene 1C, 5B, 6B, 7A, 8A and 13. COREQUISITE: Dental Hygiene 1D, 5C, 7B, 9 and 14.

Office practice management and the dental hygienist's role in the office team; ethical and legal aspects of dentistry and dental hygiene; personal business matters relating to dental hygiene practice. (A, CSU)

**9 NUTRITION IN DENTISTRY****1 unit, 1 lecture hour, (Spring, second year)**

PREREQUISITE: Dental Hygiene 1C, 5B, 6B, 7A and 13. COREQUISITE: Dental Hygiene 1D, 5C, 7B, 8B and 14.

Nutrition as it relates to dentistry; nutritional counseling and dietary surveys with clinical patients. (A, CSU)

**10 HEAD AND NECK ANATOMY****2 units, 2 lecture hours, 1 lab hour, (Fall, first year)**

PREREQUISITE: Biology 20 and 22 or Biology 21A and 21B. COREQUISITE: Dental Hygiene 1A, 3A, and 4.

Gross anatomical structure; relationship and function of organs of the head and neck regions. Naming of anatomic structures located in the head and neck area. (A, CSU)

**11 PAIN MANAGEMENT****4 units, 2 lecture hours, 6 lab hours, (Spring, first year)**

PREREQUISITE: Dental Hygiene 1A, 3A, 4 and 10. COREQUISITE: Dental Hygiene 1B, 2, 5A, 6A, 8A and 12.

Concepts of pain and pain control; anatomy of the trigeminal nerve, physiology of nerve conduction, and the blockage of nerve impulses. Pharmacology and physiology of topical and local anesthetic agents and nitrous oxide/oxygen gas. Preparation of the armamentarium for local anesthetic injections and techniques of regional anesthesia in dentistry. Clinical application and performance of topical, supraperiosteal and block techniques to anesthetize the oral cavity. Preparation of the armamentarium and techniques for the administration of nitrous oxide-oxygen analgesia in dentistry. Therapeutic action, side effects, overdose and management procedures of anesthetic drugs, analgesic gases and sedation drugs in dentistry. (A, CSU)

**12 CLINICAL SEMINAR TOPICS I****2 units, 2 lecture hours, (Spring, first year)**

PREREQUISITE: Dental Hygiene 1A, 3A, 4 and 10. COREQUISITE: Dental Hygiene 1B, 2, 5A, 6A, 8A and 11.

Seminar format with discussion of various topics dealing with beginning clinical practice of dental hygiene. Beginning level decision making, dental hygiene diagnosis, treatment planning, implementation of dental hygiene therapy and problem solving of clinical issues encountered in DH 5A, Clinical Dental Hygiene I. Instrument sharpening, beginning instrument sequencing, periodontal assessment charting, and dental computer technology. (A, CSU)

**13 SEMINAR TOPICS II, ADVANCED INSTRUMENTATION****1 unit, 2 lecture hours, (9 weeks), (Fall, second year)**

PREREQUISITE: Dental Hygiene 12. COREQUISITE: Dental Hygiene 5B.

Various topics related to advanced clinical practice of dental hygiene. Incorporation of evidence based decision making (EBDM) in development of clinical judgment, dental hygiene diagnosis, care/treatment planning, implementation of dental hygiene therapies and problem solving. Integration of advanced dental hygiene instruments, power scaling techniques, clinical skills and treatment modalities. The intent of DH 13 Seminar Topics II, Advanced Instrumentation, is to strengthen the student's ability to incorporate EBDM and advanced skill performance with instrumentation techniques. (A, CSU)

**14 CLINICAL SEMINAR TOPICS III****1 unit, 2 lecture hours, (9 weeks), (Fall, second year)**

PREREQUISITE: Dental Hygiene 1C, 5B, 6B, 7A and 13. COREQUISITE: Dental Hygiene 1D, 5C, 7B, 8B and 9.

Seminar format with discussion of various topics dealing with advanced clinical practice of dental hygiene. Advanced level of decision making, clinical judgment, dental hygiene diagnosis, and problem solving of clinical issues encountered in DH 5C, Clinical Dental Hygiene III. Preparation for the Dental Hygiene National Board Examination, Mock Board Clinical examination, and state licensure examinations. (A, CSU)

**200 CLINICAL DENTAL HYGIENE IV****0.2-1 unit, 1.3-9 lab hours, (6 weeks), (Pass/No Pass)**

PREREQUISITE: Graduation from an accredited Dental Hygiene Program.

Advanced experience in patient treatment procedures. Principles and procedures of Dental Hygiene 5A, 5B, and 5C. Provides treatment opportunities that allow students to maintain and perfect their dental hygiene skill level between program graduation and successful completion of clinical licensing examinations. Students must have current CPR certification and malpractice insurance.

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**DEVELOPMENTAL SERVICES (DEV/SER)**


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**50 ADAPTED FITNESS AND FLEXIBILITY**  
**1 unit, 1 lecture hour, 1 lab hour, (Formerly**  
**Physical Education 50)**

ADVISORY: Eligibility for English 1A recommended.

Designed for students with disabling conditions. Development and/or maintenance of basic physical/mental skills with an introduction to basic nutrition, disability and pharmaceutical issues. Measured cardiovascular fitness, stretching, nutritional evaluation and current disability/pharmaceutical topics. (A, CSU, UC)

**51 ADAPTED AQUATICS**  
**0.5 unit, 2 lab hours, (Formerly Physical**  
**Education 51)**

ADVISORY: Eligibility for English 1A recommended.

Designed for students with disabling conditions. Development and/or maintenance of basic physical skills, knowledge, and attitude for successful participation in aquatics. Measured skill performance and cardiovascular fitness. (A, CSU, UC)

**52 ADAPTED SPORTS**  
**0.5 unit, 2 lab hours, (Formerly Physical**  
**Education 52)**

ADVISORY: Eligibility for English 1A recommended.

Designed for students with disabling conditions. Sports skills of Frisbee, Frolf, Bocci, Horseshoe. (A, CSU, UC)

**53 ADAPTED STRENGTH TRAINING**  
**0.5 unit, 2 lab hours, (Formerly Physical**  
**Education 53)**

ADVISORY: Eligibility for English 1A recommended.

Designed for students with disabling conditions. Development and/ or maintenance of strength. Adapted fundamental/advanced strength, flexibility, and cardiovascular endurance. (A, CSU, UC)

**54 ADAPTED WALKING AND CONDITIONING**  
**1 unit, 1 lecture hour, 1 lab hour, (Formerly**  
**Physical Education 8 and 54)**

ADVISORY: Eligibility for English 1A recommended.

Designed for students with disabling conditions. Development and/ or maintenance of basic physical/mental conditioning skills with and introduction to basic nutrition, disability and pharmaceutical issues. Measured cardiovascular fitness, stretching, nutritional evaluation and current disability/pharmaceutical topics. (A, CSU, UC)

**55 ADAPTED FLEXIBILITY AND STRENGTH**  
**1 unit, 1 lecture hour, 1 lab hour, (Formerly**  
**Physical Education 55)**

ADVISORY: Eligibility for English 1A recommended.

Designed for students with disabling conditions. Development and/or maintenance of flexibility, strength, and fitness using progressive resistance, stretching, and cardiovascular fitness activities. A very basic introduction to nutrition and current disability/pharmaceutical issues. (A, CSU, UC)

**250 CAREER AWARENESS**  
**4 units, 4 lecture hours, (Pass/ No Pass)**

ADVISORY: Counselor placement.

Emphasizes the development of tools, ideas, and strategies designed to be the blue-prints for obtaining and retaining a job. Attitude and personality traits will merge with goal setting and life management skills enabling students to better link personal issues to long-term career success. Designed for students with disabilities.

**252A COMMUNICATION SKILLS AND**  
**STRATEGIES 1**

**4 units, 4 lecture hours, (Pass/ No Pass)**

ADVISORY: Counselor placement.

Emphasizes developing foundational communication skills and social skills at home, school, and in the community, using a variety of basic skills. Expanding basic communication skills including the various ways people communicate, appropriate versus inappropriate communication, the different messages we send, styles of communication, and using communication for general conflict resolution. Designed for students with disabilities.

**252B COMMUNICATION SKILLS AND**  
**STRATEGIES 2**

**4 units, 4 lecture hours, (Pass/ No Pass),**  
**(Formerly Developmental Services 252)**

ADVISORY: Counselor placement.

Emphasizes developing strategies in the workplace and personal life related to personal disability, work ethics, communication and socialization important for employment. Expanding communication skills as a vehicle for solving problems. Designed for students with disabilities.

**260 JOB SEARCH, EMPLOYMENT PORTFOLIO, AND INTERVIEW DEVELOPMENT**  
**3 units, 3 lecture hours, 1 lab hour, (Pass/No Pass), (Formerly Developmental Services 60)**

ADVISORY: Counselor placement.

Emphasizes the development of job search strategies including online applications, social networking sites, internet job search sites, creating and utilizing a professional network. Students will complete portfolios which will include the following: Resumes, cover letters, letters of recommendation, and references. Students will develop and demonstrate interview skills. Students will develop and maintain a job search log during their job search process. Designed for students with disabilities.

**262 GROUP INTERACTION**

**3 units, 3 lecture hours, (Pass/No Pass), (Formerly Developmental Services 62)**

ADVISORY: Counselor placement.

Development and improvement of self-understanding through group interactions. Designed for students with disabilities.

**264 TRANSITION TO COLLEGE FOR STUDENTS WITH DISABILITIES**

**1 unit, 1 lecture hour, (Pass/No Pass)**

ADVISORY: Counselor placement.

Assist students with disabilities in preparing for initial semester in a community college. Navigation of State Center Community College District campus, resources, academic policies, procedures and services. Course content will cover issues related to accommodations and resources available to students with disabilities to enable them to be successful in a college setting, including disability evaluation and assessment, alternative media, course selection, and scheduling. Designed for students with disabilities.

**272 CONSUMER SKILLS**

**2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 72)**

ADVISORY: Counselor placement.

Emphasis on home and money management, health, hygiene and safety, and food and nutrition. Designed for students with disabilities.

**273 INDEPENDENT LIVING SKILLS FOR STUDENTS IN DSP&S**

**2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 73)**

ADVISORY: Counselor placement.

Basic independent living skills: including appropriate social interaction, self-advocacy, self-care, community involvement, personal choice and managing life events. Designed for students with disabilities.

**275 HORTICULTURE SKILLS I**

**2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 75)**

ADVISORY: Counselor placement.

Basic techniques of foliage plant care and growing vegetables and ornamentals, with emphasis on transferable employment skills. Designed for students with disabilities.

**276 HORTICULTURE SKILLS II**

**2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 76)**

ADVISORY: Developmental Services 275. Counselor placement.

Intermediate techniques of foliage plant care and growing vegetables with emphasis on transferable employment skills. Designed for students with disabilities.

**277 BEGINNING COMPUTER LITERACY**

**4 units, 4 lecture hours (Pass/No Pass), (Formerly Developmental Services 77)**

ADVISORY: Counselor placement.

Introduction to computers and commonly used microcomputer applications. Emphasis on computer use and adaptation. In depth coverage of computers and their impact in society. Designed for students with disabilities.

**278 BASIC WORD PROCESSING FOR WORK**

**3 units, 3 lecture hours, 1 lab hour, (Pass/No Pass), (Formerly Developmental Services 78)**

ADVISORY: Counselor placement.

Basic word processing terminology and understanding of Microsoft Word. Designed for students with disabilities.

**279 BASIC MODIFIED COMPUTER APPLICATIONS**

**3 units, 3 lecture hours, 1 lab hour, (Pass/No Pass), (Formerly Developmental Services 79)**

ADVISORY: Counselor placement.

Expansion and enhancement of word processing, data management, spreadsheet, and other highly marketable microcomputer applications. Designed for students with disabilities.



**282 GREENHOUSE WORKFORCE PREP**  
**3 units, 9 lab hours, (Pass/No Pass),**  
**(Formerly Developmental Services 82)**

ADVISORY: Developmental Services 275 and 276.

Introduction to vocational training in an actual working greenhouse. Assists students in preparing for success in future employment. Topics include ornamental and vegetable plant growing and care, occupational behavior and inter-personal skill development. Designed for students.

**283 READING COMPREHENSION 1**  
**4 units, 4 lecture hours, (Pass/No Pass),**  
**(Formerly English 77 and English 277)**

ADVISORY: Counselor placement. Prior to entering this course, students should be comfortable reading beginning college level material. Not recommended for students learning English as a second language.

Development of basic reading readiness skills through learning main ideas and important details; builds on already existing reading skills. Prepares students for DEVSER 284.

**284 READING COMPREHENSION 2**  
**4 units, 4 lecture hours, (Pass/No Pass),**  
**(Formerly English 78 and English 278)**

PREREQUISITE: Developmental Services 283. ADVISORY: Counselor placement. Not recommended for students learning English as a second language.

Further development of reading skills and strategies while developing literal and critical comprehension. Designed for students with disabilities.

**285 PARAGRAPHS TO ESSAYS**  
**2.5 units, 2 lecture hours, 2 lab hours,**  
**(Pass/No Pass), (Formerly English 81 and**  
**English 281)**

ADVISORY: Counselor placement. Prior to entering this course, it is recommended that students be able to compose an organized paragraph. Not recommended for students learning English as a second language.

Development of a basic understanding of paragraph and essay structures. Identification of possible essay topics and develop an ability to find and correct grammatical errors. Designed for students with disabilities. Prepares students for DEVSER 286.

**286 ESSAY DEVELOPMENT AND COLLEGE WRITING**  
**2.5 units, 2 lecture hours, 2 lab hours,**  
**(Pass/No Pass), (Formerly English 82 and**  
**English 282)**

PREREQUISITE: Developmental Services 285. ADVISORY: Counselor placement. Prior to entering this course, it is recommended that students be able to compose a short, organized essay. Not recommended for students learning English as a second language.

Further development of college writing skills through composition, revision, and beginning research strategies. Designed for students with disabilities.

**291 STRATEGIES FOR ACADEMIC SUCCESS**  
**2 units, 2 lecture hours, (Pass/No Pass)**

ADVISORY: Counselor placement.

Identification of learning strengths and weaknesses, educational, personal, career goals, study principles, methods and strategies to achieve them. Designed for students with disabilities.

**292 LEARNING SKILLS AND STRATEGIES**  
**2 units, 2 lecture hours, (Pass/No Pass)**

ADVISORY: Counselor placement.

Development of college survival skills. Emphasis on time management, note-taking, test taking, library skills, improvement of communication skills, and career exploration. Designed for students with disabilities.

**359 LEARNING ASSESSMENT**  
**8 lab hours, (Pass/No Pass),**  
**(Repeats = 4), (Open Entry/Open Exit),**  
**(Formerly Developmental Services 59)**

ADVISORY: Counselor placement.

Learning Assessment to identify learning strengths and deficits, and to provide information to DSP&S for verification of a disability and accommodations needed. Designed for students with disabilities.

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## DRAFTING (DRAFT)

SEE ALSO COMPUTER AIDED DRAFTING AND DESIGN

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**12 DRAFTING PRACTICES**  
**3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended. Working knowledge of basic arithmetic recommended.

Freehand sketching, orthographic projection, measuring devices, geometric construction, pictorial drawing and dimensioning. (A, CSU)

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**ECONOMICS (ECON)**


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**25 INTRODUCTION TO ECONOMICS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended. Mathematics 201 recommended.

Introduction to market economies and contemporary economic issues through a survey of microeconomic and macroeconomic concepts. Topics include supply and demand, role of government, production and costs, measuring the macroeconomy, economic policy, and economic growth. Course is not designed for students majoring in Business or Economics. (A, CSU-GE)

**40 INTRODUCTION TO MICROECONOMICS****3 units, 3 lecture hours, (Formerly Economics 1B)**

PREREQUISITE: Mathematics 103. ADVISORY: Eligibility for English 1A recommended.

An introductory analysis focusing on the economic choices of individuals. Topics include: scarcity, comparative advantage, market equilibrium, elasticity, cost theory, market structures, factor markets and market failure. (C-ID ECON 201) (A, CSU-GE, UC, I)

**40H HONORS INTRODUCTION TO MICROECONOMICS****3 units, 3 lecture hours, (Formerly Economics 1BH)**

PREREQUISITE: Mathematics 103. ADVISORY: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

An introductory analysis focusing on the economic choices of individuals. Topics include: scarcity, comparative advantage, market equilibrium, elasticity, cost theory, market structures, factor markets and market failure. Honors sections will discuss and analyze contemporary economic society in historical context. (C-ID ECON 201) (A, CSU-GE, UC, I)

**50 INTRODUCTION TO MACROECONOMICS****3 units, 3 lecture hours, (Formerly Economics 1A)**

PREREQUISITE: Mathematics 103. ADVISORY: Eligibility for English 1A recommended.

An introductory analysis of aggregate economic variables. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics and economic growth. (C-ID ECON 202) (A, CSU-GE, UC, I)

**50H HONORS INTRODUCTION TO MACROECONOMICS****3 units, 3 lecture hours, (Formerly Economics 1AH)**

PREREQUISITE: Mathematics 103. ADVISORY: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

An introductory analysis of aggregate economic variables. Topics include: market systems, Aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics and economic growth. Honors sections will discuss and analyze the works of historical economic figures. (C-ID ECON 202) (A, CSU-GE, UC, I)

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**EDUCATION (EDUC)**


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**6 INTRODUCTION TO SPECIAL EDUCATION****3 units, 3 lecture hours, (Formerly Educational Aide 6 and 60)**

ADVISORY: Eligibility for English 1A recommended.

An overview of special education in Kindergarten through grade 12 (K-12). Includes the history of special education, laws and regulations governing service provision, philosophies, assessment methods and personnel requirements. (A, CSU)

**7 EXCEPTIONAL LEARNERS****3 units, 3 lecture hours, (Formerly Educational Aide 7 and 61)**

ADVISORY: Eligibility for English 1A recommended.

An introduction to the variations in development of children with special needs ages birth through eighteen and the implications for education settings. Includes an overview of development, characteristics of specific disabilities, and strategies and adaptations for supporting learning and development for all children. (A, CSU)



**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL****1-8 units, (Formerly Educational Aide 19)**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to educational aide. Collaborative learning objectives established specific to educational aide. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (C-ID EDUC 200 = EDUC 19 + EDUC 30) (A, CSU)

**19X WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL****1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to secondary teacher education. Collaborative learning objectives established specific to the secondary teacher education field. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**30 INTRODUCTION TO TEACHING****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's content standards and frameworks, and teacher performance standards. (C-ID EDUC 200 = EDUC 30 + EDUC 19) (A, CSU, UC)

**ELECTRICITY**

SEE ELECTRICAL SYSTEMS TECHNOLOGY

**ELECTRICAL SYSTEMS TECHNOLOGY (EST)**

FORMERLY ELECTRONIC TECHNOLOGY

**50 INTRODUCTION TO ELECTRICAL SYSTEMS TECHNOLOGY**  
**2 units, 2 lecture hours, (Formerly Electronic Technology 50)**

PREREQUISITE: None.

An introduction to electronics and the Electrical Systems Technology program. Intensive review and practice in the reading & math skills, and critical thinking necessary for success in any electronics or electrically related career. (A, CSU)

**51 DIRECT CURRENT FUNDAMENTALS OF ELECTRONICS****3 units, 3 lecture hours, 1 lab hour, (Formerly Electronic Technology 51)**

ADVISORY: Electrical Systems Technology 53.

Fundamental principles and applications of direct current circuits. Emphasis on properties of conductors, insulators, and basic components and circuit theory. (A, CSU)

**52 ALTERNATING CURRENT FUNDAMENTALS**  
**3 units, 3 lecture hours, 1 lab hour**

ADVISORY: Electrical Systems Technology 51 and Applied Technology 10.

Fundamental principles and applications of alternating current circuits. Emphasis on comparing and contrasting direct current and alternating current, power production, and residential, commercial, industrial applications. (A, CSU)

**53 LAB SAFETY PRACTICES**  
**2 units, 2 lecture hours, 1 lab hour, (Formerly Electronic Technology 57)**

PREREQUISITE: None.

Introduction to the proper and safe use of hand tools, electrical devices/instruments, and component identification, and general circuit assembly procedures. (A, CSU)

- 54 INTEGRATED DEVICES**  
**3 units, 3 lecture hours, 1 lab hour,**  
**(Formerly Electronic Technology 52)**  
ADVISORY: Electrical Systems Technology 52.  
Fundamentals of integrated devices and their applications. Proper and safe use of test equipment. (A, CSU)
- 55A DIGITAL CONCEPTS**  
**3 units, 3 lecture hours, 1 lab hour,**  
**(Formerly Electronic Technology 53)**  
ADVISORY: Electrical Systems Technology 51.  
Introduction to digital systems and subcomponents. Introduction to analog vs. digital world, numbering systems, logic gates, decoders, encoders, multiplexer and multiplexed transmission, registers and memory devices, as well as, digital circuit design using computer software. (A, CSU)
- 55B FACILITY AUTOMATION**  
**3 units, 3 lecture hours, 1 lab hour**  
ADVISORY: Electrical Systems Technology 50.  
Facility automation fundamentals identifying various aspects of the control systems within a commercial building. (A, CSU)
- 55C SCADA SYSTEMS**  
**3 units, 3 lecture hours, 1 lab hour**  
ADVISORY: Electrical Systems Technology 56B.  
SCADA software and HMI hardware applications. (A, CSU)
- 56A WIRING METHODS**  
**3 units, 3 lecture hours, 1 lab hour**  
ADVISORY: Electrical Systems Technology 54.  
Introduction and application of electrical wiring methods as recognized by the National Electrical Code. Includes wiring methods and procedures for residential, commercial and industrial applications. Major emphasis will be placed upon electrical safety. (A, CSU)
- 56B MOTOR CONTROLS**  
**3 units, 3 lecture hours, 1 lab hour**  
ADVISORY: Electrical Systems Technology 54.  
Investigation and implementation of motor control. Emphasis on the fundamentals of logic and wiring as applied to motor controls. (A, CSU)
- 56C VARIABLE FREQUENCY DRIVES & MOTION CONTROL**  
**3 units, 3 lecture hours, 1 lab hour**  
ADVISORY: Electrical Systems Technology 54, 56B, and 58.  
Application of electronic principles in the industrial environment. Emphasis on variable frequency drives, control circuits and electronic components. (A, CSU)
- 57A ANALOG COMMUNICATIONS**  
**3 units, 3 lecture hours, 1 lab hour**  
ADVISORY: Electrical Systems Technology 54 and 55A.  
Analog modulation techniques and the frequency spectrum. (A, CSU)
- 57B DIGITAL COMMUNICATIONS**  
**3 units, 3 lecture hours, 1 lab hour**  
ADVISORY: Electrical Systems Technology 57A.  
Digital multiplexing, digital conversions, and network communication. (A, CSU)
- 57C VOICE AND DATA CABLING**  
**3 units, 3 lecture hours, 1 lab hour**  
ADVISORY: Electrical Systems Technology 54.  
The course focuses on cabling issues related to data and voice connections and provides an understanding of the industry and its worldwide standards, types of media and cabling, physical and logical networks, as well as signal transmission. (A, CSU)
- 58 PROGRAMMABLE LOGIC CONTROLLERS**  
**3 units, 3 lecture hours, 1 lab hour,**  
**(Formerly Electronic Technology 58)**  
ADVISORY: Electrical Systems Technology 56B.  
Basic programming of programmable logic controllers, and input/output device interfacing. (A, CSU)
- 59 INSTRUMENTATION SYSTEMS**  
**3 units, 3 lecture hours, 1 lab hour,**  
**(Formerly Electronic Technology 60)**  
ADVISORY: Electrical Systems Technology 50.  
Basic instrumentation and control concepts with application in process control systems. Calibrating, terminology, and Piping and Instrument Diagram (P&ID) symbols as established by the Instrumentation, Systems, and Automation Society. (A, CSU)
- 60 A+PC MAINTENANCE AND REPAIR**  
**3 units, 3 lecture hours, 1 lab hour,**  
**(Formerly Electronic Technology 61)**  
ADVISORY: Electrical Systems Technology 51.  
Skills for computer hardware support; installation, configuration, diagnosing and troubleshooting computer hardware. (A, CSU)
- 61 NETWORKING FUNDAMENTALS**  
**3 units, 3 lecture hours, 1 lab hour,**  
**(Formerly Electronic Technology 59)**  
ADVISORY: Electrical Systems Technology 55A and 60.  
Principles and structure of network addressing including applications and equipment operation. (A, CSU)

- 62 COMMERCIAL & INDUSTRIAL NETWORKING**  
**3 units, 3 lecture hours, 1 lab hour**  
 ADVISORY: Electrical Systems Technology 61.  
 Applications of the architecture, components, protocols, routers, and switches used in commercial and industrial networking environments. (A, CSU)
- 80 INTRODUCTION TO PHOTOVOLTAICS**  
**3 units, 3 lecture hours, 1 lab hour**  
 ADVISORY: Electrical Systems Technology 54.  
 Designed for students interested in an entry level career in the solar industry. Introduction to the fundamental principles and functions of the photovoltaic industry along with the physical installation for a photovoltaic system. (A, CSU)
- 81 PHOTOVOLTAIC SYSTEMS**  
**3 units, 3 lecture hours, 1 lab hour**  
 ADVISORY: Electrical Systems Technology 54 and 56A.  
 Introduction of photovoltaic system requirements, design and configurations, installation techniques, and their applications in residential, commercial, and industrial. (A, CSU)
- 82A INTRODUCTION TO ROBOTICS**  
**3.5 units, 3 lecture hours, 2 lab hours**  
 ADVISORY: Electrical Systems Technology 51.  
 Equipment (tools, computers and machinery) and processes used in the development and construction of robotics used in manufacturing, medical and aerospace industries. Creating prototype drawings and constructing various prototype robots. (A, CSU)
- 82B ROBOTIC APPLICATIONS**  
**3.5 units, 3 lecture hours, 2 lab hours**  
 PREREQUISITE: Electrical Systems Technology 82A.  
 Introduction to the applications of robotics in industry, with emphasis on automated work cells set-up, programming and operations. Course topics will include basic concepts and components of a typical automated work cells end effector designs and production line interfacing are studied. Students will design work cells and develop functional work cell simulators. (A, CSU)
- 83A ROBOTICS, INDUSTRIAL - INTRODUCTION**  
**3 units, 3 lecture hours, 1 lab hour, (See also Welding Technology 83A)**  
 ADVISORY: Electrical Systems Technology 54.  
 This introduction covers the basic operation, programming, and vision integration with industrial robots. (A, CSU)
- 83B ROBOTICS, INDUSTRIAL – ADVANCED APPLICATION**  
**3 units, 3 lecture hours, 1 lab hour**  
 ADVISORY: Electrical Systems Technology 83A.  
 Advanced maintenance, programming, operation, and collaborative applications. (A, CSU)
- 84A INTRODUCTION TO BIOMEDICAL ELECTRONICS**  
**3 units, 3 lecture hours, 1 lab hour**  
 ADVISORY: Electrical Systems Technology 51 and 52.  
 A study of biomedical instrumentation and equipment used in the health care field. (A, CSU)
- 96A NATIONAL ELECTRICAL CODE PART 1**  
**3 units, 3 lecture hours**  
 ADVISORY: Electrical Systems Technology 55B, 56A, and 56B.  
 Application of all rules for engineering, designing, installing, maintaining, and inspecting electrical systems. Designed for newcomers and professionals seeking preparation for obtaining additional certifications or further knowledge. Branch circuits, electrical services, overcurrent protection and grounding Part I. (A, CSU)
- 96B NATIONAL ELECTRICAL CODE PART 2**  
**3 units, 3 lecture hours**  
 ADVISORY: Electrical Systems Technology 55B, 56A, and 56B.  
 Application of the rules for engineering, designing, installing, maintaining and inspecting installations. Designed for newcomers to the electrical industry and professional seeking preparation for obtaining additional certifications or further knowledge. General wiring, motors, controls, transformers, other equipment and grounding, Part II. (A, CSU)
- 96C NATIONAL ELECTRICAL CODE PART 3**  
**3 units, 3 lecture hours**  
 ADVISORY: Electrical Systems Technology 55B, 56A, and 56B.  
 Application of the rules for engineering, designing, installing, maintaining and inspecting electrical installations. Designed for newcomers to the electrical industry and professionals seeking preparation for obtaining additional certifications or further knowledge. General wiring, motors, controls, transformers, other equipment and grounding. (A, CSU)
- 96D NATIONAL ELECTRICAL CODE– ELECTRICAL SAFETY**  
**3 units, 3 lecture hours**  
 ADVISORY: Electrical Systems Technology 55B, 56A, and 56B.  
 Fundamentals of electrical safety as required by NFPA Document 70E. (A, CSU)

**175 RESIDENTIAL WIRING**  
**4 units, 3 lecture hours, 4 lab hours,**  
**(Formerly Electronic Technology 75 and**  
**Electrical Systems Technology 75))**

ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English for Multi-Lingual Students 67 or 68 recommended.

Introduction, technique and installation of the electrical wiring system for a single-family residence. Installation of the actual wiring system for the Fresno City College construction department's single-family residence at an off-campus location. Emphasis on current wiring practices and electrical codes. (A)

**175A RESIDENTIAL WIRING 1**  
**4 units, 3 lecture hours, 3 lab hours, (See**  
**also Construction 175A)**

COREQUISITE: Electrical Systems Technology 175AL. ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Introduction to electrical code, installation methods. Electrical circuits hands on practice. Installation of the rough electrical system in the Fresno City College construction program's project house at an off campus location. Electrical Systems Technology 175AL must be taken concurrently with Electrical Systems Technology 175A. (A)

**175AL RESIDENTIAL WIRING LAB 1**  
**0.5 unit, 1.5 lab hours, (See also**  
**Construction 175AL)**

COREQUISITE: Electrical Systems Technology 175A. ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Hands on rough wiring of a residential building. Course must be taken concurrently with Electrical Systems Technology 175A. (A)

**175B RESIDENTIAL WIRING 2**  
**4 units, 3 lecture hours, 3 lab hours, (See**  
**also Construction 175B)**

COREQUISITE: Electrical Systems Technology 175BL. ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Electrical Code. Hands on finish equipment installation, trouble shooting. Specialty circuits. Installation of the finish materials in the City College construction program's project house. Electrical Systems Technology 175BL must be taken concurrently with Electrical Systems Technology 175B. (A)

**175BL RESIDENTIAL WIRING LAB 2**  
**0.5 unit, 1.5 lab hours, (See also**  
**Construction 175BL)**

COREQUISITE: Electrical Systems Technology 175B. ADVISORY: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 1A recommended.

Students will apply classroom knowledge and gain hands on experience during the installation of finish apparatus in the FCC project house. Course must be taken concurrently with Electrical Systems Technology 175B. (A)

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## ELECTRONICS

SEE ELECTRICAL SYSTEMS TECHNOLOGY (EST)

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## ENGINEERING (ENGR)

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**1A ELEMENTARY PLANE SURVEYING 1**  
**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Mathematics 4A. ADVISORY: Eligibility for English 1A recommended.

Principles and practice of plane surveying: office computations and design; operation of surveying field equipment; and production of engineering plans/maps. Topics include distances, angles, and directions; differential leveling; traversing; property/boundary surveys; topographic surveys/mapping; volume/earthwork; horizontal and vertical curves; land description techniques; and GPS. Extensive field work using tapes, levels, transits, theodolites and total stations. (C-ID ENGR 180) (A, CSU, UC)

**2 GRAPHICS**  
**4 units, 2 lecture hours, 6 lab hours,**  
**(Formerly Engineering 26)**

PREREQUISITE: Mathematics 4A. ADVISORY: Eligibility for English 1A recommended.

Principles of engineering drawings in visually communicating engineering designs and an introduction to computer-aided design (CAD). Topics include the development of visualization and sketching skills, orthographic projections, mechanical dimensioning and tolerancing practices, 2D and 3D CAD skills and the engineering design process. The use of CAD software is an integral part of the course. (C-ID ENGR 150) (A, CSU, UC)

**4 ENGINEERING MATERIALS****3 units, 3 lecture hours, (Formerly Engineering 32)**

PREREQUISITE: Chemistry 1A and Physics 4A. ADVISORY: Eligibility for English 1A recommended.

Properties of engineering materials and their relation to atomic structure. The effect of microstructure on the mechanical, electrical, magnetic and thermal properties. Phase equilibria and strengthening processes for metals, ceramics, and polymers. (A, CSU, UC)

**4L ENGINEERING MATERIALS LABORATORY****1 unit, 3 lab hours**

COREQUISITE: Engineering 4. ADVISORY: English 1A.

This course is the experimental exploration of the connections between the structure of materials and materials properties. Laboratories provide opportunities to directly observe the structures and behaviors discussed in the lecture course (ENGR 4), to operate testing equipment, to analyze experimental data, and to prepare reports. (A, CSU)

**5 PROGRAMMING AND PROBLEM SOLVING IN MATLAB****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Mathematics 5A. ADVISORY: Eligibility for English 1A recommended.

Utilizes the MATLAB environment to provide students with a working knowledge of computer-based problem solving methods relevant to science and engineering. Introduces the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Examples and assignments in the course are drawn from practical applications in engineering, physics, and mathematics. (C-ID ENGR 220) (A, CSU, UC)

**6 CIRCUITS WITH LAB****4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Physics 4B. COREQUISITE: Mathematics 7 or 17. ADVISORY: English 1A.

An introductory course in the analysis of DC and AC linear circuits containing resistors, inductors, capacitors, independent and dependent voltage and current sources, and operational amplifiers. Lecture topics include Ohm's Law, Kirchhoff's Laws, node and mesh analysis, Thevenin's and Norton's Theorems, superposition, natural and forced response in first and second order circuits, phasor analysis, resonance, AC steady-state power calculations, power transfer, and energy concepts. Lab component includes construction, testing, and analysis of linear electrical circuits. (C-ID ENGR 260 & 260L) (A, CSU, UC)

**8 STATICS****3 units, 3 lecture hours, (Formerly Engineering 25)**

PREREQUISITE: Physics 4A. COREQUISITE: Mathematics 6. ADVISORY: Eligibility for English 1A recommended.

Rigid bodies in static equilibrium when acted upon by forces and couples in two- and three-dimensional space. Included are the equilibrium of rigid bodies, trusses, frames, and machines, as well as the calculations of the centers of mass, centroids, friction, and moments of inertia. Additional topics which may be covered include distributed forces in cables, beams, and fluid statics; mass moments of inertia; and virtual work. (C-ID ENGR 130) (A, CSU, UC)

**10 INTRODUCTION TO ENGINEERING****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

This course explores the branches of engineering, the functions of an engineer, and the industries in which engineers work. Explains the engineering education pathways and explores effective strategies for students to reach their full academic potential. Presents an introduction to the methods and tools of engineering problem solving and design including experimentation, data analysis, computer and communication skills, and the interface of the engineer with society and engineering ethics. (C-ID ENGR 110) (A, CSU, UC)

**11 MANUFACTURING PROCESSES****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Processing and manufacturing techniques for steel, ceramics, polymers, composites and other industrial materials. Topics include the capabilities and limitations of casting, welding, forming, and machining. Demonstrations and field trips may be included. (A, CSU)

**12 DIGITAL LOGIC DESIGN****4 units, 3 lecture hours, 3 lab hours**

COREQUISITE: Mathematics 103. ADVISORY: Eligibility for English 1A recommended.

Introductory course in the fundamentals of designing digital computer hardware. Course covers: logic gates, binary number system, conversion between number systems, Boolean algebra, Karnaugh maps, combinational logic, digital logic design, flip-flops, programmable logic devices (PLDs), counters, registers, memories, state machines, designing combinational logic and state machines into PLDs, and basic computer architecture. Lab assignments are design oriented. (A, CSU, UC)

**ENGINEERING TECHNOLOGY**

SEE DRAFTING

**ENGLISH (ENGL)****1A READING AND COMPOSITION****4 units, 4 lecture hours**

PREREQUISITE: English 125 and 126 or English for Multi-Lingual Students 167W and 168R or English for Multi-Lingual Students 180RW or placement for multiple measures. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Reading, analyzing, and writing college-level prose, with emphasis on the expository; studying writing as a process; exploring different writing strategies; summarizing, editing, and critiquing; conducting research (gathering, organizing, evaluating, integrating and documenting information). (C-ID ENGL 100) (A, CSU-GE, UC, I)

**1AH HONORS READING AND COMPOSITION****4 units, 4 lecture hours, (Formerly Honors 1E)**

PREREQUISITE: English 125 and 126 or English for Multi-Lingual Students 167W and 168R or English for Multi-Lingual Students 180RW or placement for multiple measures. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Reading, analyzing, and writing college-level prose, with emphasis on the expository; studying writing as a process; exploring different writing strategies; summarizing, editing, and critiquing; conducting research (gathering, organizing, evaluating, integrating and documenting information). Honors sections may cover additional subject matter such as creative writing, peer response, the study of oral narrative and its relationship to writing and composing on the computer. (C-ID ENGL 100) (A, CSU-GE, UC, I)

**1B INTRODUCTION TO THE STUDY OF LITERATURE****3 units, 3 lecture hours**

PREREQUISITE: English 1A or equivalent.

Reading and critical analysis of short stories, novels, poems, and plays. (C-ID ENGL 120) (A, CSU-GE, UC, I)

**3 CRITICAL READING & WRITING****3 units, 3 lecture hours**

PREREQUISITE: English 1A or equivalent.

Developing critical thinking skills in reading and writing beyond English 1A. Reasoning for analysis and argument writing based mainly on non-fiction readings. (C-ID ENGL 105) (A, CSU-GE, UC, I)

**3H HONORS CRITICAL READING & WRITING****3 units, 3 lecture hours**

PREREQUISITE: English 1A or equivalent. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Developing critical thinking skills in reading and writing beyond English 1A. Reasoning for analysis and argument writing based mainly on non-fiction readings. Honors sections may cover additional subject matter, such as more in-depth analytical research, extensive analysis of rhetorical discourse, and the study of how critical reasoning and argument is utilized in content area research and practice. (C-ID ENGL 105) (A, CSU-GE, UC, I)

**12 THE BIBLE AS LITERATURE****3 units, 3 lecture hours**

PREREQUISITE: English 1A or equivalent.

A survey of the Bible as literature. Reading and critical analysis of the Old and New Testaments. (A, CSU-GE, UC, I)

**14 FOLKLORE****3 units, 3 lecture hours**

PREREQUISITE: English 1A or equivalent.

Reading and critical analysis of folklore and folk literature from around the world in literature, film, and the visual arts, including the cultural and literary roots of folklore and folk literature. (A, CSU-GE, UC, I)

**15A CREATIVE WRITING: POETRY****3 units, 3 lecture hours, (Formerly English 15)**

PREREQUISITE: English 1A or equivalent.

Analysis and writing of poetry for critical review. (C-ID ENGL 200 = ENGL 15A + 15B)(A, CSU-GE, UC)

**15B CREATIVE WRITING: FICTION****3 units, 3 lecture hours**

PREREQUISITE: English 1A or equivalent.

Writing fiction for critical review. (C-ID ENGL 200 = ENGL 15A + 15B) (A, CSU, UC)

**15C CREATIVE WRITING: PLAYWRITING****3 units, 3 lecture hours, (See also Theatre Arts 15C)**

PREREQUISITE: English 1A or equivalent.

Analysis and writing of plays for critical review. (A, CSU, UC)



- 15D CREATIVE WRITING: CREATIVE NONFICTION**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 Intensive workshop in memoir, lyric essay, and all other forms of creative nonfiction writing; appropriate readings and analyses for critical review. (A, CSU, UC)
- 17 AFRICAN-AMERICAN LITERATURE**  
**3 units, 3 lecture hours, (See also African-American Studies 17)**  
 PREREQUISITE: English 1A or equivalent.  
 Reading critical works of African and African-American writers and understanding cultural values and themes as expressed in essays, short stories, novels, poetry, and plays. (A, CSU-GE, UC, I)
- 20 ASIAN AMERICAN LITERATURE**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 Survey of Asian American classic and contemporary literature. Reading and writing critical analysis of novels, short stories, poems and plays. (A, CSU, UC)
- 36 WOMEN'S LITERATURE**  
**3 units, 3 lecture hours, (See also Women's Studies 36)**  
 PREREQUISITE: English 1A or equivalent.  
 Survey of literature by women in fiction, drama, poetry, biography, and essay. Covers multicultural and international literature from classical to contemporary periods, in addition to feminist and gender theory. (A, CSU-GE, UC, I)
- 40 THEMES IN LITERATURE**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 Themes, authors, or genres through close readings, contextual approaches, interpretations, and critical evaluations. The subject will vary with the instructors, for example, "Rites of Passage in the American Consciousness," "The Detective as Hero"; Emily Dickinson, Carlos Fuentes; Popular Literature, Science Fiction. (A, CSU-GE, UC)
- 42 CLASSIC MYTHS**  
**3 units, 3 lecture hours, (See also Humanities 42)**  
 PREREQUISITE: English 1A or equivalent.  
 Reading and critical analysis of basic mythic themes in literature, film, and the visual arts. The origin of myths in ritual, their development in western civilization, and their ultimate form and continued presence in the arts. (A, CSU-GE, UC, I)
- 44A WORLD LITERATURE TO THE RENAISSANCE**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 A survey of the most enduring fiction, drama, and poetry from classical antiquity to the renaissance. (C-ID ENGL 140) (A, CSU-GE, UC, I)
- 44B WORLD LITERATURE SINCE THE RENAISSANCE**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 A survey of the most enduring fiction, drama, and poetry from the neo-classic era to 1950. (C-ID ENGL 145) (A, CSU-GE, UC, I)
- 45 CONTEMPORARY WORLD LITERATURE**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 Contemporary (since 1950) works in world literature in fiction, drama, poetry, biography, and essay. (A, CSU-GE, UC, I)
- 46A ENGLISH LITERATURE TO 1800**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 A survey of British and Irish fiction, poetry, and drama from the earliest writings through 1800. (C-ID ENGL 160) (A, CSU-GE, UC, I)
- 46B ENGLISH LITERATURE FROM 1800 TO THE PRESENT**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 A survey of British and Irish fiction, poetry, and drama of the Romantic, Victorian, and Contemporary periods. (C-ID ENGL 165) (A, CSU-GE, UC, I)
- 47 INTRODUCTION TO SHAKESPEARE**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 An introduction to the plays and poetry of William Shakespeare, including selections from the tragedies, comedies, histories, and sonnets. (A, CSU-GE, UC, I)
- 48A INTRODUCTION TO AMERICAN LITERATURE TO 1865**  
**3 units, 3 lecture hours**  
 PREREQUISITE: English 1A or equivalent.  
 A survey of short stories, novels, poetry, essays, and plays produced by the diverse canon of American writers of the period. (C-ID ENGL 130) (A, CSU-GE, UC, I)

**48B INTRODUCTION TO AMERICAN LITERATURE 1865 TO THE PRESENT****3 units, 3 lecture hours**

PREREQUISITE: English 1A or equivalent.

A survey of short stories, novels, poetry, essays, and plays produced by the diverse canon of American writers of the period. (C-ID ENGL 135) (A, CSU-GE, UC, I)

**105 GRAMMAR AND PUNCTUATION****3 units, 3 lecture hours, (Formerly English 5)**

ADVISORY: Eligibility for English 125 and 126 or English for Multi-Lingual Students 167W and 168R recommended.

Elements of basic sentence structure, including appropriate punctuation. (A)

**125 WRITING SKILLS FOR COLLEGE****4 units, 4 lecture hours, (Formerly English A and 25)**

PREREQUISITE: Designated score on English placement test or satisfactory completion of English 252 or 282. Not recommended for students learning English as a second language.

Develops the process of writing, revising and finishing short papers, including logical development and organization of ideas. Emphasizes avoiding common writing errors; develops critical thinking and writing by reading model essays and by analyzing and utilizing rhetorical strategies appropriate to purpose and audience. Develops basic research skills. Prepares students for English 1A. (A)

**126A ACADEMIC READING EFFICIENCY****2 units, 2 lecture hours**

PREREQUISITE: None.

Develops efficient academic reading and learning strategies which improve retention and application of learned content in college courses other than English. (A)

**205 ACCELERATED READING AND COMPOSITION SKILLS****2 units, 2 lecture hours, (Pass/No Pass)**

PREREQUISITE: Placement by multiple measures. COREQUISITE: English 1A.

Support course with concurrent enrollment in English 1A Reading and Composition. Emphasizes skills in critical reading, expository and argumentative writing, and research techniques. Includes intensive instruction and practice in reading, writing, and critical thinking skills for successful completion of ENGL 1A.

**252 WRITING IMPROVEMENT****4 units, 4 lecture hours, (Pass/No Pass), (Formerly English 52)**

PREREQUISITE: Designated score on English placement test with other relevant criteria or satisfactory completion of English 250 or 281. Not recommended for students learning English as a second language. Not primarily for students with identified learning disabilities.

Develops rudimentary essay building skills, including paragraph and essay development. Helps students identify and correct extensive grammatical errors. Prepares students for English 125. Students must satisfactorily complete course work to receive credit for the class.

**300 ACADEMIC LEARNING & LITERACY SKILLS****3 lecture hours, (Pass/No Pass), (Retakes = 3)**

PREREQUISITE: None.

Develops academic reading and comprehension strategies in order to retain and apply learned information in college content area courses. Emphasis is on structured note-taking and study skills for expository materials. This course is designed for non-transfer students or for self-placement.

**326A ACADEMIC READING EFFICIENCY****2 lecture hours, (Pass/No Pass), (Retakes = 3)**

PREREQUISITE: None.

Develops efficient academic reading and learning strategies which improve retention and application of learned content in college courses other than English.

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**ENGLISH FOR MULTI-LINGUAL STUDENTS (EMLS)**


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 FORMERLY ENGLISH AS A SECOND LANGUAGE
 

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**180RW ADVANCED ACADEMIC READING AND WRITING****6 units, 6 lecture hours**

PREREQUISITE: English for Multi-Lingual Students 285R or 385RW.

This advanced, academic literacy course is designed for multi-lingual students (EMLS, formerly ESL). Students will read various types of college-level in which students will engage with diverse reading materials in order to process knowledge and build schema; they will engage in intentional writing based on source material using an academic format in preparation for English 1A and content area courses. (A)

**264LS INTERMEDIATE LISTENING AND SPEAKING****3 units, 3 lecture, (Pass/No Pass)**

PREREQUISITE: None.

A listening and speaking course designed for multi-lingual speakers who wish to develop their oral language skills at the intermediate level. This course can be taken concurrently with other English for Multi-Lingual courses.

**270 PRONUNCIATION IMPROVEMENT AND ACCENT REDUCTION****3 units, 3 lecture hours, (Pass/No Pass)**

PREREQUISITE: None.

This course is for EMLS students at the Intermediate to Advanced levels to improve oral communication (listening/speaking) skills including phonetic accuracy and fluency. Improving oral communication skills results in greater speaker confidence and intelligibility.

**284RW INTERMEDIATE ACADEMIC READING AND WRITING****5 units, 5 lecture hours, (Pass/No Pass)**

PREREQUISITE: English for Multi-Lingual Students 263RW or 363RW, or 263R and 263W.

First semester of the academic reading and writing sequence designed to introduce non-native English speakers to the demands of Academic English. Emphasizes structuring the academic paragraph and developing short academic essays in response to text based prompts. Focuses on developing academic reading, writing, language (i.e. grammar, vocabulary), and critical thinking skills. Designed to prepare multi-lingual students and English language learners for EMLS 285RW, or EMLS 385RW.

**285RW HIGH-INTERMEDIATE ACADEMIC READING AND WRITING****5 units, 5 lecture hours, (Pass/No Pass)**

PREREQUISITE: English for Multi-Lingual Students 284RW or 384RW, or 264R and 264W.

Second semester of the academic reading and writing sequence designed to introduce non-native English speakers to the demands of Academic English. Emphasizes refining the academic paragraph and structuring the academic essay in response to text-based prompts. Focuses on developing academic reading, writing, language (i.e. grammar, vocabulary), and critical thinking skills. Designed to prepare multi-lingual students and English language learners for EMLS 180.

**364LS INTERMEDIATE LISTENING AND SPEAKING****3 lecture hours, (Repeats = 3),****(Pass/No Pass)**

PREREQUISITE: None.

A listening and speaking course designed for multi-lingual speakers who wish to develop their oral language skills at the intermediate level. This course can be taken concurrently with other English for Multi-Lingual Students courses.

**364R INTERMEDIATE ACADEMIC READING AND VOCABULARY****4 lecture hours, (Pass/No Pass),****(Repeats = 3)**

PREREQUISITE: English for Multi-Lingual Students 263R or 363R. Use of language other than English. Designated score on college placement test; department-approved Multiple Measures.

At an intermediate level, develops students' skills in the areas of vocabulary usage, literal comprehension, critical reading, and cultural inferences as necessary for college content classes. Improves students' reading skills and trains students to use reading strategies that can be applied to various reading tasks. Emphasizes reading as a problem-solving process. Designed to prepare multi-lingual students and English Language Learners (ELL) for English for Multi-Lingual Students 265R or 365R and content area courses.

**364RA INTERMEDIATE READING AND VOCABULARY A****1 lecture hour, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: None.

This intermediate level course is designed to develop the students' reading skills and strategies that aid in the literal interpretation of a given text, increase academic vocabulary, and develop metacognition in preparation for EMLS 364RB and other mainstream classes.

**364RB INTERMEDIATE READING AND VOCABULARY B****1 lecture hour, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: None.

This intermediate level course is design to develop the students' reading skills and strategies that aid in analyzing a given text, increase academic vocabulary develop, and develop metacognition in preparation for EMLS 364RC and other mainstream classes.

**364RC INTERMEDIATE READING AND VOCABULARY C**

**1 lecture hour, (Pass/No Pass), (Repeats = 3)**  
**PREREQUISITE:** None.

This intermediate level course is design to develop the students' reading skills and strategies that aid in evaluating a given text, increase academic vocabulary, and develop metacognition in preparation for EMLS 365R and other mainstream classes.

**364W INTERMEDIATE ACADEMIC WRITING AND GRAMMAR**

**4 lecture hours, (Pass/No Pass),**  
**(Repeats = 3)**

**PREREQUISITE:** English for Multi-Lingual Students 263W or 363W. Use of language other than English. Designated score on college placement test; department-approved Multiple Measures.

At the intermediate level, develops the process of writing, revising, and editing. Includes preparation for and composition of paragraphs and short essays. Reinforces grammar skills and develops study skills. Designed to prepare multi-lingual students and English Language Learners (ELL) for English for Multi-Lingual Students 265W or 365W and content area courses.

**365R HIGH INTERMEDIATE ACADEMIC READING AND VOCABULARY**

**4 lecture hours, (Pass/No Pass),**  
**(Repeats = 3)**

**PREREQUISITE:** English for Multi-Lingual Students 264R or 364R. Use of language other than English. Designated score on college placement test; department-approved Multiple Measures.

At a high intermediate level, develops students' skills in the areas of vocabulary usage, literal comprehension, critical reading, and cultural inferences as necessary for college content classes. Improves students' reading skills and trains students to use reading strategies that can be applied to various reading tasks. Emphasizes reading as a problem-solving process. Designed to prepare multi-lingual students and English Language Learners (ELL) for English for Multi-Lingual Students 168R and content area courses.

**365W HIGH INTERMEDIATE ACADEMIC WRITING AND GRAMMAR**

**4 lecture hours, (Pass/No Pass),**  
**(Repeats = 3)**

**PREREQUISITE:** English for Multi-Lingual Students 264W or 364W. Use of language other than English. Designated score on college placement test; department-approved Multiple Measures.

At the intermediate level, develops the process of writing, revising, and editing. Includes preparation for and composition of paragraphs and short essays. Reinforces grammar skills and develops study skills. Designed to prepare multi-lingual students and English Language Learners (ELL) for English for Multi-Lingual Students 167W and content area courses.

**370 PRONUNCIATION IMPROVEMENT AND ACCENT REDUCTION**

**3 lecture hours, (Pass/No Pass),**  
**(Repeats = 3)**

**PREREQUISITE:** None.

This non-credit course is for EMLS students at the Intermediate to Advanced levels to improve oral communication (listening/speaking) skills including phonetic accuracy and fluency. Improving oral communication skills results in greater speaker confidence and intelligibility.

**371A LOW-INTERMEDIATE PRONUNCIATION IMPROVEMENT AND ACCENT REDUCTION**

**1 lecture hour, (Pass/No Pass), (Repeats = 3)**  
**PREREQUISITE:** None.

This non-credit course is for EMLS students at the Low Intermediate level to improve oral communication (listening/speaking) skills including phonetic accuracy and fluency. Improving oral communication skills results in greater speaker confidence and intelligibility.

**371B HIGH-INTERMEDIATE PRONUNCIATION IMPROVEMENT AND ACCENT REDUCTION**

**1 lecture hour, (Pass/No Pass), (Repeats = 3)**  
**PREREQUISITE:** None.

This non-credit course is for EMLS students at the high-intermediate level to improve oral communication (listening/speaking) skills including phonetic accuracy and fluency. Improving oral communication skills results in greater speaker confidence and intelligibility.

**371C ADVANCED PRONUNCIATION IMPROVEMENT AND ACCENT REDUCTION**

**1 lecture hour, (Pass/No Pass), (Repeats = 3)**  
**PREREQUISITE:** None.

This non-credit course is for EMLS students at the advanced level to improve oral communication (listening/speaking) skills including phonetic accuracy and fluency. Improving oral communication skills results in greater speaker confidence and intelligibility.

**372A LOW-INTERMEDIATE ACADEMIC GRAMMAR****1 lecture hour, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: None.

This non-credit grammar skills course is designed for speakers of other languages who want to comprehend and use grammar structures in written and oral academic English. This low-intermediate course may be taken concurrently with other EMLS courses.

**372B HIGH-INTERMEDIATE ACADEMIC GRAMMAR****1 lecture hour, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: None.

This non-credit grammar skills course is designed for speakers of other languages who want to comprehend and use grammar structures in written and oral academic English. This high-intermediate course may be taken concurrently with other EMLS courses.

**372C ADVANCED ACADEMIC GRAMMAR****1 lecture hour, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: None.

This non-credit grammar skills course is designed for speakers of other languages who want to comprehend and use grammar structures in written and oral academic English. This advanced course may be taken concurrently with other EMLS courses.

**373A LOW-INTERMEDIATE LISTENING AND SPEAKING****1 lecture hour, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: None.

A non-credit listening and speaking course designed for multi-lingual speakers who wish to develop their oral language skills at the low-intermediate level. This course can be taken concurrently with other English for Multi-Lingual Students courses.

**373B HIGH-INTERMEDIATE LISTENING AND SPEAKING****1 lecture hour, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: None.

A non-credit listening and speaking course designed for multi-lingual speakers who wish to develop their oral language skills at the high-intermediate level. This course can be taken concurrently with other English for Multi-Lingual Students courses.

**373C ADVANCED LISTENING AND SPEAKING****1 lecture hour, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: None.

A non-credit listening and speaking course designed for multi-lingual speakers who wish to develop their oral language skills at the advanced level. This course can be taken concurrently with other English for Multi-Lingual Students courses.

**384RW INTERMEDIATE ACADEMIC READING AND WRITING****5 lecture hours, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: English for Multi-Lingual Students 263RW or 363RW or placement by multiple measures. Use of a language other than English.

First semester of the academic reading and writing sequence designed to introduce non-native speakers to the demands of Academic English. Emphasizes structuring the academic paragraph and developing the academic essay in response to text-based prompts. . Focuses on developing academic reading, writing, language (i.e. grammar, vocabulary) and critical thinking skills. Designed to prepare multi-lingual students and English language learners for EMLS 285RW, or EMLS 385RW.

**385RW HIGH INTERMEDIATE ACADEMIC READING AND WRITING****5 lecture hours, (Pass/No Pass), (Repeats = 3)**

PREREQUISITE: English for Multi-Lingual Students 284RW or 384RW or placement by multiple measures. Use of a language other than English.

Second semester of the academic reading and writing sequence designed to introduce non-native English speakers to the demands of Academic English. Emphasizes refining the academic paragraph and structuring the academic essay in response to text-based prompts. Focuses on developing academic reading, writing, language (i.e. grammar, vocabulary), and critical thinking skills. Designed to prepare multi-lingual students and English Language Learners for EMLS 180RW.

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**FASHION MERCHANDISING (FM)**

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**FORMERLY RETAILING FASHION**

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**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL****1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to fashion merchandising. Collaborative learning objectives established specific to fashion merchandising. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**26 APPAREL AND TEXTILES****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to basic textiles; the study of fibers, yarns and fabric identifications, with emphasis on various processes of textile manufacturing, fabric finishes, sustainability/environmental concerns and appropriates for end use. This course qualifies for various Fashion Vocational Certificates. (A, CSU)

**27 INTRODUCTION TO FASHION MERCHANDISING****3 units, 3 lecture hours, (See also Marketing 22)**

ADVISORY: Eligibility for English 1A recommended.

Provides students an introduction to the world of fashion merchandising. Includes the history/global perspectives, uniqueness, and opportunities in fashion. Also presents fundamentals of fashion, basic fashion terminology, and an overview of textiles and apparel. (A, CSU)

**28 VISUAL MERCHANDISING****3 units, 3 lecture hours, (See also Marketing 17), (Formerly Retailing Fashion 17)**

ADVISORY: Eligibility for English 1A and Mathematics 201 recommended.

Modern display techniques, equipment, materials, and analysis of current display methods as they apply to creating a store's image. Laboratory exercises to include planning, executing, and evaluating a variety of displays including signage, cases, windows, and banners. Field trips. (A, CSU)

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**FILM (FILM)**

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**1 INTRODUCTION TO FILM STUDIES****3 units, 3 lecture hours**

ADVISORY: English 1A.

Introduction to the study of motion pictures, with emphasis on aesthetics, theory, and methods of critical analysis. Lectures, discussions, and readings are supplemented by screenings of representative movies from around the world, including documentary and experimental films. (A, CSU-GE, UC, I)

**2A HISTORY OF CINEMA 1895-1960****3 units, 3 lecture hours, (Formerly Film 1A)**

ADVISORY: English 1A.

A survey of international film history from the invention of cinema in the 1890s to 1960, including the development of narrative, documentary, and avant-garde film of the period; the aesthetic, technological, economic, and social factors that shaped this medium; and its impact on diverse societies and cultural values. (A, CSU-GE, UC, I)

**2B HISTORY OF CINEMA 1960-PRESENT****3 units, 3 lecture hours, (Formerly Film 1B)**

ADVISORY: English 1A.

A survey of international film history from 1960 to the present, including the development of narrative, documentary, and avant-garde film of the period; the aesthetic, technological, economic, and social factors that shape this medium; and its impact on diverse societies and cultural values. (A, CSU-GE, UC, I)

**3 FILM AND CULTURE****3 units, 3 lecture hours**

ADVISORY: English 1A.

The relationship between moving images and culture, including the images of race, ethnicity, class, and gender in film; the ways in which ideologies are conveyed through popular movies; and the technological, industrial, and aesthetic factors affecting screen content. Lectures, discussions, and readings are supplemented by screenings of representative films. (A, CSU-GE, UC, I)

**5 DIGITAL FILMMAKING****3 units, 3 lecture hours**

PREREQUISITE: None.

Introduction to video filmmaking, including scripting, shooting, and editing short digital films. Emphasis on personal and creative expression. (A, CSU, UC)

**6 FILM GENRES****3 units, 3 lecture hours**

ADVISORY: English 1A.

Genre study to provide a clear context for appreciating the fundamental components of film as art and as social expression. Investigates the origins, evolution and transformations of various film genres, including film noir, the Western, science-fiction, the musical, horror, war, or the crime film. Covers the formal and thematic conventions of each genre and the genre as a reflection of the social environments that produced them. (A, CSU-GE, UC, I)

**7 INTRODUCTION TO SCREENWRITING****3 units, 3 lecture hours**

ADVISORY: English 1A.

Introduction to the basic techniques for writing for the screen from story concept to completed script. (A, CSU)

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**FIRE TECHNOLOGY (FIRET)**


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**1 FIRE PROTECTION ORGANIZATION**  
**3 units, 3.27 lecture hours, (Formerly Fire Science 1)**

PREREQUISITE: None.

An introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as a part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions. (C-ID FIRE 100X) (A, CSU)

**2 FIRE PREVENTION TECHNOLOGY**  
**3 units, 8.4 lecture hours, (7 weeks), (Spring), (Formerly Fire Science 6)**

PREREQUISITE: None.

History and philosophy of fire prevention, organization, and operation of a fire prevention bureau; use of fire codes; identification and correction of fire hazards; the relationship of fire prevention with fire safety education; and understanding of detection and suppression systems. (C-ID FIRE 110X) (A, CSU)

**3 FIRE PROTECTION EQUIPMENT AND SYSTEMS**
**3 units, 8.4 lecture hours, (7 weeks), (Spring), (Formerly Fire Science 7)**

PREREQUISITE: None.

Features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. (C-ID FIRE 120X) (A, CSU)

**4 BUILDING CONSTRUCTION FOR FIRE PROTECTION**
**3 units, 3.27 lecture hours, (Spring), (Formerly Fire Science 5)**

PREREQUISITE: None.

Components of building construction that relate to fire and life safety; focus on firefighter safety; elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. (C-ID FIRE 130X) (A, CSU)

**5 FIRE BEHAVIOR AND COMBUSTION**  
**3 units, 3.27 lecture hours, (Spring), (Formerly Fire Science 3)**

PREREQUISITE: None.

Theory and fundamentals of how and why fires start, spread, and are controlled; fire chemistry and physics, fire characteristics of materials, extinguishing agents and fire control techniques. (C-ID FIRE 140X) (A, CSU)

**8 FIRE HYDRAULICS**  
**3 units, 8.4 lecture hours, (7 weeks) (Spring), (Formerly Fire Science 8)**

PREREQUISITE: None.

Hydraulic laws and formulas as applied to the fire service, including application of formulas and mental calculation to hydraulic problems, water supply problems, and underwriter's requirement for pumps. Reviews basic mathematics. (A, CSU)

**9 FIRE FIGHTING PRACTICES**  
**3 units, 8.4 lecture hours, (7 weeks), (Spring), (Formerly Fire Science 9)**

PREREQUISITE: None.

An in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground; fire fighting strategy and tactics; methods of attack; pre-planning fire problems. (A, CSU)

**14 PRINCIPLES OF FIRE & EMERGENCY SERVICES SAFETY & SURVIVAL**
**3 units, 8.4 lecture hours, (7 weeks)**

PREREQUISITE: None.

Basic concepts of occupational health and safety as it relates to emergency services organizations; risk evaluation and control procedures for emergency and non-emergency situations. (A, CSU)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL**  
**1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to fire technology. Collaborative learning objectives established specific to the particular occupational field. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**22A FIREFIGHTER II PART A**

**2 units, 1.87 lecture hours, 0.47 lab hour,  
(Formerly Fire Technology 222A)**

PREREQUISITE: Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

Provides the skills and knowledge needed for the entry level professional fire fighter to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications. The five overarching themes of the California State Fire Fighter II curriculum are: general knowledge germane to the profession, fire department communications, fireground operations, rescue operations, and prevention, preparedness, and maintenance. (A, CSU)

**22B FIREFIGHTER II PART B**

**3 units, 2.7 lecture hours, 1.79 lab hours,  
(Formerly Fire Technology 222B)**

PREREQUISITE: Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

Provides the skills and knowledge needed for the entry level professional fire fighter to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications. The five overarching themes of the California State Fire Fighter II curriculum are: general knowledge germane to the profession, fire department communications, fireground operations, rescue operations, and prevention, preparedness, and maintenance. (A, CSU)

**23 COMPANY OFFICER 2A: HUMAN RESOURCE MANAGEMENT FOR COMPANY OFFICERS**

**2 units, 2.34 lecture hours, (Formerly Fire  
Technology 223)**

PREREQUISITE: None.

Topics include the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene. Must meet state fire training prerequisites. (A, CSU)

**24 COMPANY OFFICER 2B: GENERAL ADMINISTRATIVE FUNCTIONS FOR COMPANY OFFICERS**

**1 unit, 1.12 lecture hours, (Formerly Fire  
Technology 224)**

PREREQUISITE: None.

Topics include general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public. Must meet state fire training prerequisites. (A, CSU)

**25 COMPANY OFFICER 2C: FIRE INSPECTIONS AND INVESTIGATIONS FOR COMPANY OFFICERS**

**2 units, 2.23 lecture hours, (Formerly Fire  
Technology 225)**

PREREQUISITE: None.

Topics include conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence. Must meet state fire training prerequisites. (A, CSU)

**26 COMPANY OFFICER 2D: ALL-RISK COMMAND OPERATIONS FOR COMPANY OFFICERS**

**2 units, 2.23 lecture hours, (Formerly Fire  
Technology 226)**

PREREQUISITE: None.

Topics include conducting incident size-up, developing and implementing an initial plan of action involving single and multiunit operations for various types of emergency incidents to mitigate the situation following agency safety procedures, conducting pre-incident planning, and develop and conduct a post-incident analysis. Must meet state fire training prerequisites. (A, CSU)

**27 COMPANY OFFICER 2E: WILDLAND INCIDENT OPERATIONS FOR COMPANY OFFICERS**

**2 units, 2.23 lecture hours, (Formerly Fire  
Technology 227)**

PREREQUISITE: None.

Topics include information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. Must meet state fire training prerequisites. (A, CSU)



**29 INTERMEDIATE WILDLAND FIRE BEHAVIOR**  
**2 units, 2.25 lecture hours**

PREREQUISITE: None.

Topics include preparing the prospective supervisor to undertake safe and effective fire management operations. It is the second course in a series that collectively serves to develop fire behavior prediction knowledge and skills. Fire environment differences are discussed as necessary, and the instructor should stress local conditions. Must meet state fire training prerequisites. (A, CSU)

**30E INCIDENT COMMANDER HAZMAT**  
**0.4 unit, 0.4 lecture hour, 0.15 lab hour**

PREREQUISITE: None.

A study of the emergency response to Hazardous Material (Hazmat) incidents with an emphasis on the role of the Incident Commander (IC) as defined by OSHA Hazardous Waste Operations and Emergency Response (Hazwoper) regulations, including basic hazardous materials chemistry, regulations, the tactics and strategy of mitigation, decontamination, and scene management. Upon successful completion, students will receive a certificate in Hazardous Materials IC from the California Specialized Training Institute (CSTI). (A, CSU)

**50L INSTRUCTOR I INSTRUCTIONAL  
 METHODOLOGY**  
**2 units, 2.25 lecture hours, (Formerly Fire  
 Technology 150L)**

PREREQUISITE: None.

Skills and knowledge needed for the entry level professional instructor to perform his or her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of NFPA 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Instructor I certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. The Instructor I will also be able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction. (A, CSU)

**51A BASIC FIRE INVESTIGATIONS**  
**1.5 units, 1.5 lecture hours, 0.7 lab hour**

PREREQUISITE: None.

Topics include information on securing the fire scene and determining the origin and cause of the fire. Topics include responsibilities of a fire investigator, securing the fire ground, conducting an exterior and interior survey, analyzing fire patterns, interpreting individual fire patterns, discriminating the effects of explosions, examining and removing fire debris, reconstructing the area of origin, inspecting the performance of building systems. Must meet state fire training course prerequisites. (A, CSU)

**51B EVIDENCE AND DOCUMENTATION**  
**1 unit, 1.17 lecture hours, 0.7 lab hour**

PREREQUISITE: None.

Topics include information on scene documentation and evidence collection/preservation. Topics include photographing the scene, diagramming the scene, constructing investigative notes, processing evidence and establishing chain of custody, processing victims and fatalities, selecting evidence for analysis, maintaining a chain of custody, preparing a fire investigation report, and disposing of evidence. Must meet state fire training course prerequisites. (A, CSU)

**51C PREPARATION FOR LEGAL PROCEEDINGS**  
**1 unit, 1 lecture hour, 1.23 lab hours**

PREREQUISITE: None.

Topics include information on legal considerations for a court proceeding. Topics include coordinating expert resources, formulating an opinion, presenting investigative findings, and testifying during legal proceedings. You must meet state fire training prerequisites. (A, CSU)

**130A BASIC FIRE ACADEMY - PART 1**  
**14.5 units, 8 lecture hours, 20 lab hours**

PREREQUISITE: Valid Public Safety First Aid and CPR course as defined by California Health & Safety Code, Section 1797.182. Valid EMT-B National Registry Certification. Initial PT Test (25 push-ups, 35 sit-ups, 15 minute 1.5 mile run). Completion of Fire Technology 1 or equivalent.

Skills and knowledge needed for the entry level professional fire fighter to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications, the 2012 edition of NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications, and the 2008 edition of NFPA 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. The seven overarching themes of the California State Fire Fighter I curriculum are: general knowledge germane to the profession, fire department communications, fireground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and hazardous materials/WMD. An intensive physical fitness training program is also part of this course; course is offered on an intensive daytime format or an extended evening and weekend format. (A)

**130B BASIC FIRE ACADEMY - PART 2****14.5 units, 8.42 lecture hours,****19.5 lab hours**

PREREQUISITE: Successful completion of Fire Technology 130A when taken in tandem without a time separation between courses (Fire Technology 130A and Fire Technology 130B).

Topics include skills and knowledge needed for the entry level professional fire fighter to perform his/her duties safely, effectively, and competently. The seven overarching themes of the California State Fire Fighter I curriculum are: general knowledge germane to the profession, fire department communications, fireground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and hazardous materials/WMD. An intensive physical fitness training program is also part of this course; course is offered on an intensive daytime format or an extended evening and weekend format. (A)

**131 EMERGENCY MEDICAL TECHNICIAN I****9.5 units, 8 lecture hours, 5.33 lab hours,****(Formerly Fire Science and Fire Technology 31)**

PREREQUISITE: Possession of a valid CPR card that proves training equivalent to the American Heart Associations' Guideline 2000 for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care at the Health Provider level.

Designed to prepare personnel in the fire, life safety, and related fields to render pre-hospital basic life support including, but not limited to, advanced first aid and cardiopulmonary life support for the ill or injured at the scene of an emergency in preparation for transport in accordance with policies and procedures established by the Emergency Medical Services of the Fresno County Health Department. Twenty-four lab hours arranged. (A)

**133 EMERGENCY MEDICAL TECHNICIAN – PARAMEDIC – DIDACTIC****21.5 units, 12.5 lecture hours, 11.5 lab hours, (24 weeks)**

PREREQUISITE: None.

Designed to produce qualified and competent EMT – Paramedics educated and trained in all elements of prehospital advanced life support to the acutely ill or injured patients; scope of practice is in accordance with Title 22 of the California Code of Regulations. (A)

**136 EMERGENCY MEDICAL TECHNICIAN-PARAMEDIC CLINICAL AND FIELD WORK  
13 units, 1.5 lecture hours, 43.8 lab hours,  
(15 weeks)**

PREREQUISITE: None.

The student will rotate through two required settings. The hospital, which consists of rotations in various departments including: emergency, surgery, labor & delivery and pediatrics, specialty units and Advanced Cardiac Life Support (ACLS), certification. The field, responding with assigned paramedic preceptors, the students will assess the scene, patients and provide appropriate care. The rotations are required to produce qualified and competent EMT-Paramedics who are educated and trained in all elements of prehospital advanced life support to the acutely ill or injured patients, in accordance with local protocols and Title 22 of the California Code of Regulations. (A)

**150N INSTRUCTOR II INSTRUCTIONAL DEVELOPMENT****2 units, 8.4 lecture hours, (5 weeks)**

PREREQUISITE: None.

Topics include intermediate level professional instructor to perform his or her duties safely, effectively, and competently. At the end of this course, candidates for Instructor II certification will be able to develop lesson plans and evaluation instruments, teach and deliver instruction, and evaluate and coach other instructors. The Instructor II will also be able to analyze resources and formulate a program budget. (A)

**160A CONFINED SPACE RESCUE TECHNICIAN****1 unit, 0.56 lecture hour, 1.67 lab hours,  
(Pass/No Pass)**

PREREQUISITE: None.

Topics include identifying confined spaces and permit-required confined spaces, the hazards associated with permit required confined spaces, target industries and hazards, state and federal regulations, components of a rescue operation, and the roles and responsibilities of the rescue team. Must meet state fire training prerequisites. (A)

**160B RESCUE SYSTEMS 1**

**0.5 unit, 0.22 lecture hour, 2.01 lab hours,  
(Pass/No Pass)**

PREREQUISITE: Fire Technology 130B. Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

Key topics include: Team organization, rescue, and environmental considerations, use of ropes, knots rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises. (A)

**160C RESCUE SYSTEMS 2**

**0.5 unit, 0.22 lecture hour, 2.01 lab hours,  
(Pass/No Pass)**

PREREQUISITE: None.

Provides advanced heavy rescue system techniques. Key topics include: Structural building types, wood and mechanical shores, crib capacities, floor weight calculations, building search, confined space considerations, damaged structure hazard assessment, use of power tools, air bags, and USAR ICS. Must meet State fire training course prerequisites. (A)

**160D RESCUE SYSTEMS 3**

**0.5 unit, 0.22 lecture hour, 2.01 lab hours,  
(Pass/No Pass)**

PREREQUISITE: None.

Bridges the training gap between the California State Fire Training Rescue Systems 2 Advanced Rescue Skills course and the Federal Emergency Management Agency Structural Collapse Technician course. Key topics include: powder actuated tools, pneumatic shores, additional tools and techniques for breaking and breaching, cutting a tensioned cable, the "O" course, rigging, and crane operations. Must meet State fire training course prerequisites. (A)

**160E OPEN WATER RESCUE**

**0.5 unit, 0.44 lecture hour, 0.9 lab hour,  
(Pass/No Pass)**

PREREQUISITE: None.

Topics include improving an individual's level of comfort and confidence for safely and proficiently performing contact rescues in static and surf water conditions. Safety is strongly emphasized throughout the class. Risk management is reinforced during every skill to establish your level of comfort in the water and to identify and overcome your limitations. The emphasis on risk management helps you determine if your actions meet your agencies SOPS/SOGS in the determination of a rescue being a "offensive" or "defensive" operation. Swimming, stroke technique and body positioning in the water are covered. "In water" skills for students include how to read and understand water flow, reading and understanding surf, contact rescues using rescue buoy devices and boards, dealing with combatant victims, performing self-rescues, and rescues of multiple victims both conscious and unconscious. Must meet State fire training course prerequisites. (A)

**160F PERSONAL WATERCRAFT RESCUE OPERATIONS**

**0.5 unit, 0.33 lecture hour, 0.56 lab hour,  
(Pass/No Pass)**

PREREQUISITE: None.

Recognize regulations governing the operation of personal watercraft on all waterways. Demonstrate a working knowledge of personal watercraft safety. Identify the procedure of report filing for any personal watercraft incident. Understand the operations of a personal watercraft jet drive system. Must meet State fire training course prerequisites. (A)

**160G RAPID INTERVENTION CREW (RIC) OPERATIONS**

**0.4 unit, 0.11 lecture hour, 1.01 lab hour,  
(Pass/No Pass)**

PREREQUISITE: None.

Topics include rescuing a downed firefighter in an immediately dangerous to life and health (IDLH) environment in the continuing effort to reduce the number of firefighter injuries and deaths that occur regularly. Tragedies suffered by fellow firefighters from departments across the country are the basis for the training evolutions and scenarios. We will show you how to use these LODD studies as training and prevention tools throughout your career. Recognize regulations governing the operation of personal watercraft on all waterways. Demonstrate a working knowledge of personal watercraft safety. Identify the procedure of report filing for any personal watercraft incident. Understand the operations of a personal watercraft jet drive system. Must meet State fire training course prerequisites. (A)

**160H RESCUE BOAT OPERATIONS**

**0.5 unit, 0.45 lecture hour, 0.89 lab hour,  
(Pass/No Pass)**

PREREQUISITE: None.

Introduce emergency service personnel to the codes and regulations that impact rescue boat operations. Provide emergency service personnel with a thorough knowledge of rescue boat operations. Prepare emergency service personnel with a strong working knowledge of rescue boat operations in both static and dynamic water. Provide emergency service personnel an opportunity to apply their knowledge through demonstrations. Provide emergency service personnel with knowledge for maintaining and performing inspections on rescue boats. Must meet State fire training course prerequisites. (A)

**160I ROPE RESCUE TECHNICIAN**

**0.5 unit, 0.22 lecture hour, 2.01 lab hours,  
(Pass/No Pass)**

PREREQUISITE: None.

Students will undergo competency testing for high angle rescue. The scope of the program is to familiarize participants with the high angle environment and experience; and for them to safely participate in the engineering and operation of simple to complex rescue systems. Must meet State fire training course prerequisites. (A)

**160J TRENCH RESCUE TECHNICIAN**

**0.4 unit, 0.24 lecture hour, 0.62 lab hour,  
(Pass/No Pass)**

PREREQUISITE: None.

Topics include working safely and efficiently in a trench rescue environment. This hands-on training program will cover topics that include: Trench and Excavation Regulations, Understanding Soil, Trench Configurations, Trench Hazards, Rescue Team Preparation, Incident Response, Initial On Scene and Pre-Entry Operations, Shoring Systems and Components, Installation of Shoring Systems, Victim Rescue and Recovery and Incident Termination. Must meet State fire training course prerequisites. (A)

**230A FIRE APPARATUS DRIVER OPERATOR 1A**

**1 unit, 0.88 lecture hour, 1.35 lab hours,  
(Pass/No Pass)**

PREREQUISITE: None.

Topics include fire apparatus preventive maintenance and driving/operating. Topics include routine tests, inspections, and servicing functions, operate, back, maneuver, and turn a fire apparatus in a variety of conditions; and operate all fixed systems and equipment on a fire apparatus. Must meet state fire training prerequisites.

**230B FIRE APPARATUS DRIVER OPERATOR 1B**

**1 unit, 0.89 lecture hour, 1.34 lab hours,  
(Pass/No Pass)**

PREREQUISITE: None.

Topics include routine tests, inspections, and servicing functions; producing hand, master, and foam fire streams, relay pump operations; and supplying water to fire sprinkler and standpipe systems. Must meet state fire training prerequisites.

**230C FIRE APPARATUS DRIVER/OPERATOR - AERIAL APPARATUS**

**1.5 units, 1.13 lecture hours, 1.1 lab hours,  
(Pass/No Pass)**

PREREQUISITE: None.

Topics include routine tests, inspections, and servicing functions on the systems and components unique to an aerial apparatus; maneuvering, positioning, and stabilizing an aerial apparatus; maneuvering, positioning, and lowering the aerial device; and deploying and operating an elevated master stream. Must meet state fire training prerequisites.

**230D FIRE APPARATUS DRIVER/OPERATOR – WATER TENDER**

**0.5 unit, 0.36 lecture hour, 1.42 lab hours,  
(Pass/No Pass)**

PREREQUISITE: None.

Topics include routine tests, inspections, and servicing functions unique to a water tender; maneuvering and positioning a water tender at a water shuttle fill site; and establishing, maneuvering, and positioning at a water shuttle dumpsite. Must meet state fire training prerequisites.

**230E FIRE APPARATUS DRIVER/OPERATOR – WILDLAND FIRE APPARATUS**

**0.5 unit, 0.25 lecture hour, 1.09 lab hours,  
(Pass/No Pass)**

PREREQUISITE: None.

Topics include routine tests, inspections, and servicing functions on the systems and components unique to wildland fire apparatus, and operating a wildland fire apparatus and producing an effective fire stream. Must meet State Fire Training prerequisites.

**233 ADVANCED FIREFIGHTER CONTINUING EDUCATION****0.4-1 unit, 1.34-4.45 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

PREREQUISITE: Successful completion of a California State Fire Marshal's Office Accredited Firefighter 1 Academy or equivalent as determined by the Division Dean, Director or their representative. Note: Approval of equivalency training approval is not a guarantee of state regulatory or licensing agencies will also grant equivalency.

Prior to beginning this course students shall be familiar with and be able to demonstrate all of the skill and general knowledge requirements of the California State Fire Marshals' Office 2001 or 2013 Firefighter 1 curriculum or IFSAC or PROBOARD Firefighter I curriculum. This curriculum is based on the National Fire Protection Association 1001: Standard for Firefighter Professional Qualifications, National Fire Protection 1051: Standard for Wildland Firefighting Personnel Professional Qualifications and the National Fire Protection Association 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. These skills will not be taught in this course; rather they will be the starting point for advanced training that build upon them. These subject areas are:

Knowledge of Fire Fighter Safety, have the ability to don and doff personal protective ensemble and self-contained breathing apparatus; knowledge of, and familiarity with fire apparatus and operating at an emergency scene; knowledge of, and familiarity with fire department communications equipment; knowledge and familiarity with firefighting tools and equipment; knowledge of and familiarity with structural fire suppression methods; knowledge of and familiarity with firefighting apparatus; knowledge of and familiarity with firefighter survival self-rescue techniques as well as downed firefighter rescue techniques; knowledge of and familiarity with passenger vehicle fires and the hazards associated with them; knowledge and familiarity with wildland response and suppression methods, have the ability to don and doff wildland personal protective equipment and know it's limitations; knowledge and familiarity with Hazardous Materials and Weapons of Mass Destruction Incidents.

Satisfies annual mandatory continuing education requirements of local Fire Agencies, Fresno County Health Department, the California State Fire Marshals Office, and appropriate sections of the California Code of Regulations; may be offered in seminar, lecture, and/or lab format; specific course deliver method to be determined by each respective agency.

**260A CHIEF FIRE OFFICER 3A****1 unit, 0.85 lecture hour, 0.6 lab hour, (Pass/No Pass)**

PREREQUISITE: None.

Topics include knowledge of the human resources requirements related to the roles and responsibilities of a Chief Fire Officer including developing plans for providing employee accommodation, developing hiring procedures, establishing personnel assignments, describing methods of facilitating and encouraging professional development, developing an ongoing education training program, developing promotion procedures, developing proposals for improving employee benefits, and developing a measurable accident and injury prevention program. Must meet state fire training prerequisites.

**260B CHIEF FIRE OFFICER 3B****0.5 unit, 0.5 lecture hour, 0.5 lab hour, (Pass/No Pass)**

PREREQUISITE: None.

Topics include knowledge of the budgeting requirements related to the roles and responsibilities of a Chief Fire Officer including developing a budget management system, developing a division or departmental budget, and describing the process for ensuring competitive bidding. Must meet state fire training prerequisites.

**260C CHIEF FIRE OFFICER 3C****1 unit, 0.84 lecture hour, 0.5 lab hour, (Pass/No Pass)**

PREREQUISITE: None.

Topics include knowledge of the administration requirements related to the roles and responsibilities of a Chief Fire Officer including directing a department record management system, analyzing and interpreting records and data, developing a model plan for continuous organizational improvement, developing a plan to facilitate approval, preparing community awareness programs, and evaluating the inspection program of the AHJ. Must meet state fire training prerequisites.

**260D CHIEF FIRE OFFICER 3D****0.5 unit, 0.82 lecture hour, 0.52 lab hour, (Pass/No Pass)**

PREREQUISITE: None.

Topics include knowledge of the emergency service requirements related to the roles and responsibilities of a Chief Fire Officer including developing a plan for the integration of fire services resources, developing an agency resource contingency plan, evaluating incident facilities, supervising multiple resources, developing and utilizing an incident action plan, obtaining incident information to facilitate transfer of command, developing and conducting a post-incident analysis, and maintaining incident records. Must meet state fire training prerequisites.

**261 EMERGENCY MEDICAL TECHNICIAN 1 REFRESHER**  
**1 unit, 1.33 lecture hours, (Open Entry/ Open Exit), (Formerly Fire Science 61 and Fire Technology 61)**

PREREQUISITE: Valid Emergency Medical Technician 1 course completion certificate.

A review of the topics covered in Fire Technology 131, changes in emergency medical protocol, and updates on new procedures authorized for use in the field. Meets the requirements for recertification as an EMT 1 that are set forth by the State of California and Fresno County.

**265 I-300, INTERMEDIATE ICS**  
**1 unit, 1.34 lecture hours, (Pass/No Pass)**  
 PREREQUISITE: None.

ICS fundamentals review; incident/event assessment and agency guidance in establishing incident objectives; unified command; incident resource management; the planning process; demobilization; transfer of command; close out. One of the California Fire Service Training and Education System classes needed for Fire Officer certification. Must meet state fire training prerequisites.

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## FOOD AND NUTRITION (FN)

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**1 PRINCIPLES OF FOOD PREPARATION**  
**3 units, 2 lecture hours, 3 lab hours, (Formerly Home Economics 1)**  
 ADVISORY: Eligibility for English 1A recommended. A working knowledge of basic arithmetic is recommended.

Application of food science principles with emphasis on ingredient function and interaction, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutrient composition of food. (C-ID NUTR 120) (A, CSU)

**2 ADVANCED FOOD PREPARATION**  
**3 units, 1.5 lecture hours, 4.5 lab hours**  
 PREREQUISITE: Food and Nutrition 1.  
 Advanced food preparation techniques. Emphasizes proper food handling, sanitation, plating, and balance in menus. (A, CSU)

**35 NUTRITION AND HEALTH**  
**3 units, 3 lecture hours, (Formerly Home Economics 60)**

ANTI-REQUISITE: Food and Nutrition 40. If Food and Nutrition 40 has been taken for credit, Food and Nutrition 35 cannot be taken. Subjects are too similar. ADVISORY: Eligibility for English 1A recommended.

Relationship of diet to physical and emotional health; nutrients; diet patterns throughout the life cycle. Optimal nutrition to reduce the risks of cancer, heart disease, allergies, and other diseases. Social, psychological, and cultural dictates which affect food selection and health. Personal strategies to develop a nutrition plan for better health. Not open to students with credit in FN 40. (A, CSU-GE, UC)

**40 NUTRITION**  
**3 units, 3 lecture hours, (Formerly Home Economics 40)**

ADVISORY: Eligibility for English 1A recommended.

Nutrients and their ingestion, digestion, absorption, transport, metabolism, interaction, storage, and excretion. The relationship of diet to physical and emotional health, diet patterns through the life cycle, consumer concern, and recent developments. (C-ID NUTR 110) (A, CSU-GE, UC)

**41 SPORTS NUTRITION**  
**2 units, 2 lecture hours, (Formerly Home Economics 41)**

ADVISORY: Eligibility for English 1A recommended.

Effect of diet on physical performance. Planning diets to meet needs of those involved in sports and others interested in physical fitness activities. Current trends are explored. Recommended for physical education and allied health majors and individuals interested in the study of nutrition as part of their personal fitness program. (A, CSU)

**42 CHILD NUTRITION**  
**3 units, 3 lecture hours, (See also Child Development 42), (Formerly Home Economics 42)**  
 ADVISORY: Food and Nutrition 40 and eligibility for English 1A recommended.

Nutritional requirements of infants and children from conception through adolescence. Nutritional needs of pregnant and lactating women. Feeding infants and children for optimum physical and mental development. Child and maternal nutrition programs. Social and cultural influences affecting child and maternal nutrition. (A, CSU)

**43 WOMEN'S NUTRITION**  
**2 units, 2 lecture hours, (See also Women's Studies 43), (Formerly Home Economics 43)**  
 ADVISORY: Eligibility for English 1A recommended.  
 The relationship between nutrition and various contemporary health issues affecting women. Significance of nutrition as it relates to the health of women during specific stages of the life cycle. Current trends and research. (A, CSU)

**45 THERAPEUTIC DIETS**  
**3 units, 3 lecture hours, (Formerly Home Economics 5)**  
 PREREQUISITE: Food and Nutrition 40. ADVISORY: Food Service Management 19. Eligibility for English 1A recommended.  
 Nutrition care in disease and abnormal metabolic states; therapeutic diets and patient care; nutritional screening techniques. (A, CSU)

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## FOOD SERVICE MANAGEMENT (FSM)

FORMERLY DIETETIC SERVICE AND FOOD SERVICES

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**11 FOOD SERVICE SUPERVISION**  
**2 units, 2 lecture hours, (Formerly Dietetic Services 11)**  
 ADVISORY: Eligibility for English 1A and concurrent enrollment in Food Service Management 19 recommended.  
 Current methods of supervision and leadership which are applicable to the food service industry. Methods and techniques of recruitment, selection, training and evaluation of personnel. Record maintenance, enforcement of safety and sanitary standards and supervision of food service employees. (A, CSU)

**15 FOOD PRODUCTION MANAGEMENT**  
**2 units, 2 lecture hours, (Formerly Dietetic Services 15)**  
 ADVISORY: Food Service Management 19 and 35. Eligibility for English 1A recommended. A working knowledge of basic arithmetic is recommended.  
 Effective management of time, staff, equipment in quantity food preparation; supervisor responsibilities. Standards and criteria, menu planning, and systems of productions. (A, CSU)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL**  
**1-8 units**  
 COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to food service management. Collaborative learning objectives established specific to food service management. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. Orientation hours may be required. (A, CSU)

**25 FOOD AND BEVERAGE PURCHASE AND CONTROL**  
**2 units, 2 lecture hours, (Formerly Food Services 66)**  
 ADVISORY: Eligibility for English 1A recommended. A working knowledge of basic arithmetic is recommended.

Food purchasing policies and procedures with respect to budget. Basic marketing functions and selection of food products for commercial and institutional food service operations. Emphasis on developing standard purchase specification for various food service operations and on procedures for buying, receiving, storing and inventory management. (A, CSU)

**35 FOOD SERVICES, SANITATION, SAFETY AND EQUIPMENT**  
**2 units, 2 lecture hours, (Formerly Dietetic Services 35)**  
 ADVISORY: Eligibility for English 1A recommended.

Food service employees' role in preventing foodborne illness. Supervisor's responsibilities in maintaining standards of health and safety. Selection and use of food service equipment for optimum safety and sanitation, and to meet federal, state and local regulations. Exam given for the National Restaurant Association ServSafe certificate. (A, CSU)

**38 QUANTITY FOOD PREPARATION**  
**3 units, 1.5 lecture hours, 4.5 lab hours, (Formerly Dietetic Services 58)**  
 PREREQUISITE: Food and Nutrition 1. ADVISORY: Food Service Management 35. Eligibility for English 1A recommended. A working knowledge of basic arithmetic is recommended.

Quantity food preparation with emphasis on recipe standardization, use of equipment and time, application of the principles of sanitation and safety, and the attractive service of food. (A, CSU)

**144 PRESENTING SERVICE FOR FOOD SERVICE PROFESSIONALS****2 units, 2 lecture hours, (Formerly Food Service Management 44)**

ADVISORY: Eligibility for English 125 and 126 or English for Multi-Lingual Students 167W and 168R or 180RW recommended.

Techniques, attitude, education and demeanor required for successful food service operations. (A)

**146 ELEMENTARY FOOD SERVICE COMPUTATION I****1.5 units, 1.5 lecture hours, (Formerly Food Service Management 46)**

ADVISORY: Eligibility for English 125 and 126 or English for Multi-Lingual Students 167W and 168R or 180RW recommended. A working knowledge of basic arithmetic is recommended.

Basic math principles used daily in the food service and hospital-ity industry. Mathematical principles used in commercial food production and the application of these computational skills to food service. Word problems and examples exclusive to food service including the study of recipe conversion and yields, production formulas, weights and measures, the metric system and recipe and food cost analysis. (A)

**147 ELEMENTARY FOOD SERVICE COMPUTATION II****1.5 units, 1.5 lecture hours, (Formerly Food Service Management 47)**

PREREQUISITE: Food Service Management 146. ADVISORY: Eligibility for English 125 and 126 or English for Multi-Lingual Students 167W and 168R or 180RW recommended.

Basic math principles used daily in the food service and hospital-ity industry. Mathematical principles used in commercial food production and the application of these computational skills to food service. Word problems and examples exclusive to food service including the study of recipe conversion and yields, production formulas, weights and measures, the metric system and recipe and food cost analysis. (A)

**162 MENU PLANNING FOR CHILD NUTRITION  
3 units, 3 lecture hours, (Formerly Food Services 62 and Food Service Management 62)**

ADVISORY: Eligibility for English 125 and 126 or English for Multi-Lingual Students 167W and 168R or 180RW recommended.

Overview of menu planning for child nutrition programs including menu planning options, nutrition standards, menu writing, student preferences, marketing and evaluation. Procedures for developing standardized products, budgetary controls, and evaluating procurement and delivery systems. Meets Federal, State, and Local Standards. (A)

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**FOREIGN LANGUAGES**

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**AMERICAN SIGN LANGUAGE (ASL)**

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**1 BEGINNING AMERICAN SIGN LANGUAGE  
4 units, 4 lecture hours, (Formerly American Sign Language 1A)**

ADVISORY: Eligibility for English 1A recommended.

First-semester American Sign Language as used by Deaf people in America and parts of Canada. An introduction to the basic vocabulary, grammar, and culture of the Deaf community. The students will also be introduced to the literary and artistic contributions of this culture. Designed for students with no knowledge of ASL. (A, CSU-GE, UC, I)

**2 HIGH-BEGINNING AMERICAN SIGN LANGUAGE,  
4 units, 4 lecture hours, (Formerly American Sign Language 1B)**

PREREQUISITE: American Sign Language 1 or two years high school American Sign Language or equivalent. ADVISORY: Eligibility for English 1A recommended.

Second-semester American Sign Language and its usefulness as a means of communication with the deaf and hard of hearing. More in-depth information on the culture of the deaf community and the literary and artistic contribution of this culture. (A, CSU-GE, UC, I)

**3 INTERMEDIATE AMERICAN SIGN LANGUAGE  
4 units, 4 lecture hours, (Formerly American Sign Language 2A)**

PREREQUISITE: American Sign Language 2 or equivalent. ADVISORY: Eligibility for English 1A recommended.

Third semester American Sign Language and its usefulness as a means of communication with the deaf and hard of hearing. An introduction to the culture of the Deaf community and the literary and artistic contributions of this culture. (A, CSU-GE, UC, I)

**4 HIGH-INTERMEDIATE AMERICAN SIGN LANGUAGE  
4 units, 4 lecture hours, (Formerly American Sign Language 2B)**

PREREQUISITE: American Sign Language 3 or equivalent. ADVISORY: Eligibility for English 1A recommended.

Fourth semester American Sign Language. A formal method of thinking, organizing, receiving, and sending non-verbal messages in American Sign Language. The cultural context of the Deaf community for which American Sign Language serves as the primary language. (A, CSU-GE, UC, I)



**5 DEAF CULTURE****3 units, 3 lecture hours**

PREREQUISITE: American Sign Language 2 or equivalent.  
 ADVISORY: Eligibility for English 1A recommended.

An in-depth study of Deaf culture and the deaf community which will help students understand cultural values, language, identity, rules of interaction, and traditions. (A, CSU-GE)

**6 STRUCTURE OF AMERICAN SIGN LANGUAGE****3 units, 3 lecture hours**

PREREQUISITE: American Sign Language 3 or equivalent.  
 ADVISORY: Eligibility for English 1A recommended.

Examination of the parts of a sign; building words in American Sign Language; sentence types (questions, statements, relative clauses, etc.) the meaning and issue of iconicity, and sentence structure (syntax). Other grammatical features of American Sign Language will include, classifiers, verb modulations and aspects, and the role of facial expression, mouth morphemes, body orientation, and eye gaze. (A, CSU, UC)

**7 DEAF HISTORY****3 units, 3 lecture hours**

PREREQUISITE: American Sign Language 2 or equivalent.  
 ADVISORY: Eligibility for English 1A recommended.

An examination of the historical eras impacting Deaf people's lives and the evolution of deaf education and ASL from pathological/cultural views. (A, CSU-GE, UC, I)

**8 AMERICAN SIGN LANGUAGE LITERATURE/FOLKLORE****3 units, 3 lecture hours**

PREREQUISITE: American Sign Language 2. ADVISORY: Eligibility for English 1A recommended.

Examination of the values, morals and life experiences of the world around Deaf people. A study of American Sign Language literature that has been passed down from one generation to the next by people of the Deaf culture. (A, CSU-GE, UC, I)

**20 INTRODUCTION TO INTERPRETING****3 units, 3 lecture hours**

PREREQUISITE: American Sign Language 2 or equivalent.  
 ADVISORY: Eligibility for English 1A recommended.

Introduction to the role, communication process, responsibilities and environments in which Sign Language interpreters are involved, as well as the professional licensure and assessment within the profession. (A, CSU)

**21 AMERICAN SIGN LANGUAGE TO ENGLISH TRANSLATION****3 units, 3 lecture hours**

PREREQUISITE: American Sign Language 3 or equivalent.  
 ADVISORY: Eligibility for English 1A recommended.

Introduction to the cognitive processing skills and techniques used to translate American Sign Language to English. (A, CSU, UC)

**22 ENGLISH TO AMERICAN SIGN LANGUAGE TRANSLATION****3 units, 3 lecture hours**

PREREQUISITE: American Sign Language 3 or equivalent. ADVISORY: Eligibility for English 1A recommended.

Introduction to the basic translation skills from English to American Sign Language that focus on message analysis, transfer and reformulation without the pressures of simultaneity. (A, CSU, UC)

**ARMENIAN (ARMEN)****1 BEGINNING ARMENIAN****5 units, 5 lecture hours, (Formerly Armenian 1A)**

ADVISORY: Eligibility for English 1A recommended.  
 First semester beginning Armenian listening, speaking, grammar, writing, reading and vocabulary. Designed for students who have no knowledge of Armenian. (A, CSU-GE, UC, I)

**2 HIGH-BEGINNING ARMENIAN****5 units, 5 lecture hours, (Formerly Armenian 1B)**

PREREQUISITE: Armenian 1 or two years of high school Armenian or equivalent. ADVISORY: Eligibility for English 1A recommended.  
 Second semester Armenian listening, speaking, grammar, writing, reading and vocabulary. (Offered infrequently) (A, CSU-GE, UC, I)

**CHINESE (CHIN)****1 BEGINNING CHINESE****5 units, 5 lecture hours, (Formerly Chinese 1A)**

ADVISORY: Eligibility for English 1A recommended.  
 First semester Mandarin Chinese listening/speaking, reading/writing, vocabulary, and grammar. Designed for students who have no knowledge of Chinese. (A, CSU-GE, UC, I)

- 2 HIGH-BEGINNING CHINESE**  
**5 units, 5 lecture hours, (Formerly Chinese 1B)**  
 PREREQUISITE: Chinese 1 or two years of high school Chinese or equivalent. ADVISORY: Eligibility for English 1A recommended.  
 Second semester Mandarin Chinese listening, speaking, grammar, reading, writing, and vocabulary. (A, CSU-GE, UC, I)

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## FRENCH (FRENCH)

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- 1 BEGINNING FRENCH**  
**5 units, 5 lecture hours, (Formerly French 1A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 First semester French listening, speaking, grammar, writing, reading, and vocabulary. Designed for students who have no knowledge of French. (A, CSU-GE, UC, I)
- 2 HIGH-BEGINNING FRENCH**  
**5 units, 5 lecture hours, (Formerly French 1B)**  
 PREREQUISITE: French 1 or two years of high school French or equivalent. ADVISORY: Eligibility for English 1A recommended.  
 Second semester French listening, speaking, grammar, reading, writing, and vocabulary. (A, CSU-GE, UC, I)
- 3 INTERMEDIATE FRENCH**  
**5 units, 5 lecture hours, (Formerly French 2A)**  
 PREREQUISITE: French 2 or three years of high school French or equivalent (Extensive living experience with the language). ADVISORY: Eligibility for English 1A recommended.  
 Third semester French listening, speaking, grammar, reading, writing, and vocabulary. (A, CSU-GE, UC, I)

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## GERMAN (GERMAN)

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- 1 BEGINNING GERMAN**  
**5 units, 5 lecture hours, (Formerly German 1A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 First semester German listening, speaking, grammar, writing, reading, and vocabulary. Designed for students who have no knowledge of German. (A, CSU-GE, UC, I)

- 2 HIGH-BEGINNING GERMAN**  
**5 units, 5 lecture hours, (Formerly German 1B)**  
 PREREQUISITE: German 1 or two years of high school German or equivalent. ADVISORY: Eligibility for English 1A recommended.  
 Second semester German listening, speaking, grammar, reading, writing, and vocabulary. (A, CSU-GE, UC, I)

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## HMONG (HMONG)

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- 1 BEGINNING HMONG**  
**5 units, 5 lecture hours, (Formerly Hmong 1A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 First semester Hmong listening, speaking, grammar, writing, reading, and vocabulary. Designed for students who have no knowledge of Hmong. (A, CSU-GE, UC, I)
- 2 HIGH-BEGINNING HMONG**  
**5 units, 5 lecture hours, (Formerly Hmong 1B)**  
 PREREQUISITE: Hmong 1 or two years of high school Hmong or equivalent. ADVISORY: Eligibility for English 1A recommended.  
 Second semester Hmong listening, speaking, grammar, reading, writing, and vocabulary. (A, CSU-GE, UC, I)

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## JAPANESE (JAPAN)

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- 1 BEGINNING JAPANESE**  
**5 units, 5 lecture hours, (Formerly Japanese 1A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 First semester Japanese listening, speaking, grammar, writing, reading and vocabulary. Designed for students who have no knowledge of Japanese. (A, CSU-GE, UC, I)
- 2 HIGH-BEGINNING JAPANESE**  
**5 units, 5 lecture hours, (Formerly Japanese 1B)**  
 PREREQUISITE: Japanese 1 or equivalent. ADVISORY: Eligibility for English 1A recommended.  
 Second semester Japanese listening, speaking, grammar, writing, reading and vocabulary. (A, CSU-GE, UC, I)

## PORTUGUESE (PORT)

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### 1 BEGINNING PORTUGUESE

#### 5 units, 5 lecture hours

ADVISORY: Eligibility for English 1A recommended.

First semester Portuguese listening, speaking, grammar, writing, reading, and vocabulary, Portuguese and Brazilian cultures. Designed for students who have no knowledge of Portuguese. (A, CSU-GE, UC, I)

### 2 HIGH-BEGINNING PORTUGUESE

#### 5 units, 5 lecture hours

PREREQUISITE: Portuguese 1, or two years of high school Portuguese or equivalent. ADVISORY: Eligibility for English 1A recommended.

Second semester Portuguese listening, speaking, grammar, reading, writing, and vocabulary, Portuguese and Brazilian culture. (A, CSU-GE, UC, I)

## SPANISH (SPAN)

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### 1 BEGINNING SPANISH

#### 5 units, 5 lecture hours, (Formerly Spanish 1A)

ADVISORY: Eligibility for English 1A recommended.

First semester Spanish listening, speaking, grammar, writing, reading, and vocabulary. Designed for students who have no knowledge of Spanish. Not open to students qualified for or with credit in Spanish 3NS or 4NS. (C-ID SPAN 100) (A, CSU-GE, UC, I)

### 2 HIGH-BEGINNING SPANISH

#### 5 units, 5 lecture hours, (Formerly Spanish 1B)

PREREQUISITE: Spanish 1 or two years of high school Spanish or equivalent. ADVISORY: Eligibility for English 1A recommended.

Second semester Spanish listening, speaking, grammar, reading, writing, and vocabulary. Not open to students qualified for or with credit in Spanish 3NS or 4NS. (C-ID SPAN 110) (A, CSU-GE, UC, I)

### 2NS PREPARATORY SPANISH FOR NATIVE SPEAKERS

#### 5 units, 5 lecture hours

ADVISORY: Eligibility for English 1A recommended. Native Spanish speaking proficiency or appropriate high beginning level as assessed by instructor.

Designed for the student with a basic/heritage life experience using the Spanish language. Development of reading, writing, speaking and listening skills and culture in Spanish. Not open to students with credit in Spanish 2. (A, CSU-GE, UC, I)

### 3 INTERMEDIATE SPANISH

#### 5 units, 5 lecture hours, (Formerly Spanish 2A)

PREREQUISITE: Spanish 2 or three years of high school Spanish or equivalent (Extensive living experience with the language). ADVISORY: Eligibility for English 1A recommended.

Third semester Spanish listening, speaking, grammar, reading, writing, and vocabulary. (C-ID SPAN 200) (A, CSU-GE, UC, I)

### 3NS INTERMEDIATE SPANISH FOR SPANISH SPEAKERS

#### 5 units, 5 lecture hours, (Formerly Spanish 21)

PREREQUISITE: Spanish 2NS or Spanish native speaker proficiency, or the equivalent intermediate level as assessed by the instructor. ADVISORY: Eligibility for English 1A recommended.

Designed for the student with a basic life experience using the Spanish language. Development of correct grammar, correction of speech habits, and improving vocabulary and skills in reading and writing. Hispanic literature and culture. Conducted in Spanish. Not open to students with credit in Spanish 3. (C-ID SPAN 220) (A, CSU-GE, UC, I)

### 4 HIGH-INTERMEDIATE SPANISH

#### 5 units, 5 lecture hours, (Formerly Spanish 2B)

PREREQUISITE: Spanish 3 or 3NS or equivalent (extensive living experience with the language.). ADVISORY: Eligibility for English 1A recommended.

Fourth semester Spanish listening, speaking, grammar, reading, writing, and vocabulary. (C-ID SPAN 210) (A, CSU-GE, UC, I)

### 4NS HIGH-INTERMEDIATE SPANISH FOR SPANISH SPEAKERS

#### 5 units, 5 lecture hours, (Formerly Spanish 22)

PREREQUISITE: Spanish 3NS or equivalent or basic speaking knowledge of Spanish. ADVISORY: Eligibility for English 1A recommended.

Continuation of Spanish 3NS. Designed for the student with a basic life experience using the Spanish language. Development of correct grammar, correction of speech habits, and improving vocabulary and skills in reading and writing. Hispanic literature and culture. Conducted in Spanish. Not open to students with credit in Spanish 4. (C-ID SPAN 230) (A, CSU-GE, UC, I)

**5 THE SHORT STORY: MEXICO, SPAIN, AND THE U.S.****4 units, 4 lecture hours, (Formerly Spanish 3A)**

PREREQUISITE: Spanish 4 or 4NS. ADVISORY: Eligibility for English 1A recommended.

A selection of Hispanic short stories, culture and civilization. Continued development of Spanish language skills in reading, writing and speaking. Reading and discussing articles and short stories and viewing and discussing films. Includes presentation of oral and written reports. Emphasis on U.S., Mexico, and Spain. (A, CSU-GE, UC, I)

**6 THE SHORT STORY: LATIN AMERICA****4 units, 4 lecture hours, (Formerly Spanish 3B)**

PREREQUISITE: Spanish 4 or 4NS. ADVISORY: Eligibility for English 1A recommended.

A selection of Hispanic short stories, culture and civilization. Continued development of Spanish language skills in reading, writing, and speaking. Reading and discussing articles and short stories and viewing and discussing films. Includes presentation of oral and written reports. Emphasis on Latin America. (A, CSU-GE, UC, I)

**7 ADVANCED SPANISH: COMPOSITION AND GRAMMAR****4 units, 4 lecture hours**

PREREQUISITE: Spanish 4 or 4NS. ADVISORY: Eligibility for English 1A recommended.

In depth development of Spanish writing and grammar. Designed for advanced students of Spanish who want to improve their writing skills. (A, CSU-GE, UC, I)

**8 ADVANCED SPANISH CONVERSATION****4 units, 4 lecture hours**

PREREQUISITE: Spanish 4 or 4NS. ADVISORY: Eligibility for English 1A recommended.

In-depth development of Spanish oral skills. Designed for advanced students of Spanish who want to improve their ability to communicate orally with people in different language situations. (A, CSU, UC)

**9 SPANISH BUSINESS AND CULTURE****4 units, 4 lecture hours**

PREREQUISITE: Spanish 4 or Spanish 4NS, or equivalent (extensive living experience with the language.). ADVISORY: Eligibility for English 1A recommended; Spanish 7 and Business Administration 10 recommended.

A Spanish business and culture course providing the student with the vocabulary and discourse skills necessary to function effectively in a Spanish speaking commercial environment. The course will develop the student's geographic literacy and cultural understanding of Latin America and will include translation and interpretation activities, cross-cultural communication skills, and case study analysis. (A, CSU-GE, UC)

**41 INTRODUCTION TO POETRY IN SPANISH****4 units, 4 lecture hours**

PREREQUISITE: Spanish 4 or Spanish 4NS or equivalent (experience using Spanish at home, work or abroad). ADVISORY: Eligibility for English 1A recommended.

Provides the first steps to Spanish metrics, rhyme, and rhythm. It also covers periods of poetry from Medieval Spain to contemporary Spain and Latin America. (A, CSU-GE, UC, I)

**42 HISPANIC AMERICAN CULTURE****4 units, 4 lecture hours, (Formerly Spanish 17)**

PREREQUISITE: Spanish 4 or 4NS or equivalent (Experience using Spanish at home, work, or abroad). ADVISORY: Eligibility for English 1A recommended.

Study of the most important cultural and political issues in Hispanic American civilization and culture from Columbus to the present day. Chronicles, essays, and public speeches provide the main texts and sources of information for discussion. (A, CSU-GE, UC, I)

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**FRENCH**SEE FOREIGN LANGUAGES

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**GEOGRAPHY (GEOG)**

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**1 PHYSICAL GEOGRAPHY****4 units, 3 lecture hours, 2 lab hours**

ADVISORY: Eligibility for English 1A recommended.

The Earth's dynamic physical systems and processes. Topics include weather, climate, geomorphology, soils, and the biosphere. Emphasis on interrelationships among systems and processes and their resulting patterns and distributions. Tools of geographic inquiry include maps, remote sensing, graphic data, and models. (C-ID GEOG 110) (A, CSU-GE, UC, I)

**2 CULTURAL GEOGRAPHY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Survey of basic concepts, theories, and patterns in human and cultural geography. Emphasis is placed on spatial patterns of culture, the interaction between culture and the physical environment, and cultural change. Specific topics may include reading and interpretation of maps, human impacts on the environment, agriculture and food systems, cultural landscapes, urban geography, geography of religion, gender and sexuality, geopolitics, and globalization. (C-ID GEOG 120) (A, CSU-GE, UC, I)

**4A WORLD GEOGRAPHY****3 units, 3 lecture hours, (Formerly Geography 4)**

ADVISORY: Eligibility for English 1A recommended.

Introductory survey of world regional geography. Emphasis is placed on cultural, economic, political, and physical characteristics of regions, and the influence of geography on population patterns, use of natural resources, and geopolitical relationships amongst countries. Covers Europe, Russia and the Post-Soviet region, Sub-Saharan Africa, North Africa and Southwest Asia, South Asia, Southeast Asia, and East Asia. (C-ID GEOG 125 = GEOG 4A + 4B) (A, CSU-GE, UC, I)

**4B WORLD GEOGRAPHY****3 units, 3 lecture hours, (Formerly Geography 5)**

ADVISORY: Eligibility for English 1A recommended.

Introductory survey of world regional geography. Emphasis is placed on cultural, economic, political, and physical characteristics of regions, and the influence of geography on population patterns, use of natural resources, and geopolitical relationships amongst countries. Covers North America, the Caribbean, Latin America, Australia and Oceania. (C-ID GEOG 125 = GEOG 4A + 4B) (A, CSU-GE, UC, I)

**7 PHYSICAL GEOGRAPHY: EARTH'S SURFACE****4 units, 3 lecture hours, 2 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to Earth's dynamic physical systems and geomorphic processes, including tectonics, volcanism, orogenesis, denudation, and the interactions between the atmosphere, hydrosphere, lithosphere, and biosphere. Emphasis on understanding interconnections among systems, the resultant spatial patterns, and the relevance of physical geography to environmental issues. Lab includes topographic map interpretation, GIS and remote sensing, rock and mineral ID, and understanding geomorphological processes. (A, CSU-GE, UC, I)

**8 PHYSICAL GEOGRAPHY: WEATHER AND CLIMATE****4 units, 3 lecture hours, 2 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to atmospheric processes, energy and moisture exchanges, atmospheric pressure, global atmospheric and oceanic circulation patterns, precipitation processes, weather systems, and severe weather. Analysis of world, regional, and local climate systems, emphasizing an understanding of the mechanisms and consequences of global climate change. Course incorporates lab work focusing on observation and analysis of atmospheric data using charts, meteorological instruments and their use, weather maps, and radar and satellite imagery. (C-ID GEOG 130) (A, CSU-GE, UC, I)

**10 INTRODUCTION TO GIS****3 units, 2.5 lecture hours, 2 lab hours**

ADVISORY: Eligibility for English 1A and Mathematics 201 recommended. Computer Information Technology 15 is desirable.

Introduction to the fundamental concepts of Geographic Information Systems (GIS) including familiarization with commonly used GIS software, data sources, organization and input of data, display of spatial data, querying and methods of data analysis, and real-world applications of GIS to problem-solving. (A, CSU, UC)

**12 INTRODUCTION TO GLOBAL POSITIONING SYSTEMS (GPS)****1 unit, 1 lecture hour, 0.5 lab hour**

ADVISORY: Eligibility for English 1A recommended.

Introductory course in the principles and operation of GPS (Global Positioning Systems). Designed to develop basic competency for a variety of professional or recreational uses. Covers the basic principles, functioning, potential errors and applications of GPS. Use of GPS receivers required. Prepares students for advanced coursework in the GPS or for coursework in Geographic Information Systems. (A, CSU, UC)

**18 INTRODUCTION TO REMOTE SENSING****3 units, 2.5 lecture hours, 2 lab hour**

ADVISORY: Eligibility for English 1A and Mathematics 201 recommended.

Introduction to remote sensing of the Earth. History and physical principles on which remote sensing is based, sensors and their characteristics, image data sources and image acquisition, classification and interpretation of images, and techniques of analysis. Exploration of practical applications of remote sensing. (A, CSU, UC)

**20 GEOGRAPHY OF CALIFORNIA****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Course covers California's physical, cultural, and regional geography. Content includes geology and geomorphology, climate, vegetation, water resources, and natural hazards in the state; Native American and Spanish settlement; statehood and 19th century settlement; contemporary patterns of population, migration, ethnic diversity, and political and economic geography. (C-ID GEOG 140) (A, CSU-GE, UC, I)

**30 REGIONAL FIELD STUDIES****1-6 units, 1-3 lecture hours, 0-9 lab hours, (Repeats = 3)**

ADVISORY: Eligibility for English 1A recommended.

Field study of the geography of selected regions, covering geographical topics. Physical and cultural processes, characteristics and landscapes will be observed and analyzed. Content will vary by region and may include current geographical trends and/or issues in the sub-disciplines of Geography, such as environmental issues, biogeography, geomorphology, economic geography, etc. (C-ID GEOG 160) (A, CSU, UC approved as a variable topic; evaluation completed by individual campuses after admission.)

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**GEOLOGY (GEOL)**

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**1 PHYSICAL GEOLOGY****4 units, 3 lecture hours, 2 lab hours**

PREREQUISITE: Mathematics 201. ADVISORY: Eligibility for English 1A recommended.

Introduction to the principles and unifying concepts of earth science including geologic time, formation and internal structure of the Earth, plate tectonics, rock and mineral identification, weathering processes, landforms, earthquakes, volcanic activity, flooding, and groundwater resources. Laboratory exercises will include rock and mineral identification, and interpretation of topographic and geologic maps. Optional fieldtrips to classic geologic locations. (C-ID GEOL 101) (A, CSU-GE, UC, I)

**2 HISTORICAL GEOLOGY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to Earth's history using geologic dating techniques, plate tectonics, stratigraphy and the processes that have shaped the global environment. Fossil evidence for the origin and evolution of life, natural selection, and environmental change in shaping both ancient and modern living communities are also presented. Emphasis will be given to North American paleogeography and tectonics. Optional field trips. (C-ID GEOL 110) (A, CSU-GE, UC, I)

**2L HISTORICAL GEOLOGY LAB****1 unit, 3 lab hours**

COREQUISITE: Geology 2.

Laboratory studies to complement Geology 2, Historical Geology. Laboratory activities using rocks, fossils, geologic maps and cross section to interpret ancient environments, tectonic settings and geologic history. At least one field trip or an appropriate alternative activity is required. For geology majors or students with a desire to learn more about earth history. (C-ID GEOL 110L) (A, CSU-GE, UC, I)

**3 GEOLOGY FIELD STUDIES****1 unit, 0.5 lecture hour, 1 lab hour, (Pass/No Pass)**

PREREQUISITE: Geology 1 or 4 or 9.

Geology field studies of a classic geologic location, such as Death Valley, Eastern Sierra, Lassen, Kings Canyon, San Andreas Fault, etc. Required camping field trips. Additional costs for food, campground, and entrance fee. (A, CSU, UC)

**4 GEOLOGY OF CALIFORNIA****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to the geologic setting and evolution of California using the concepts of plate tectonics, stratigraphy, and processes that have shaped the landscape. Emphasis on processes that have and are still shaping the landscape, including volcanism, earthquakes, and erosion. Optional field trips. (C-ID GEOL 200) (A, CSU-GE, UC, I)

**5 INTRODUCTION TO OCEANOGRAPHY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to the study of water on earth with an emphasis on physical oceanography. Topics include ocean and shoreline processes, plate tectonics, sea floor morphology, types and distribution of seafloor sediments, ocean sediment transport, ocean chemistry, ocean currents, marine resources, and environmental concerns. Optional field trips. (A, CSU-GE, UC, I)

**9 INTRODUCTION TO EARTH SCIENCE****4 units, 3 lecture hours, 2 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to the earth sciences with an emphasis on basic topics and principles in geology, oceanography, meteorology, and astronomy. Field trips required. For transfer Liberal Studies students. (C-ID GEOL 121) (A, CSU, UC)

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**12 ENVIRONMENTAL SCIENCE**  
**3 units, 3 lecture hours, (Formerly**  
**Environmental Studies 7)**

ADVISORY: Knowledge of basic algebra. Eligibility for English 1A recommended.

The application of scientific principles to the understanding of environmental problems and issues. Seeking solutions to contemporary environmental problems; historical, economical, political and social implications; relationships to scientific principles; ecosystems, urban affairs, housing, land planning, transportation, air and water pollution, water development, food production, wildlife, pest control, and population studies. (A, CSU-GE, UC, I)

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**GERMAN**

SEE FOREIGN LANGUAGES

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**GLOBAL STUDIES (GLST)**

**1 INTRODUCTION TO GLOBAL STUDIES**

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Study of the interconnectedness and interdependence of global processes. Review of the complexity of world societies and issues and related policy dilemmas through an interdisciplinary approach. Special attention given to political, economic, social, historical and cultural patterns that mark globalization processes. Included among explored topics are the environment, migration, human rights, peace, conflict, global trade, and economic linkages. (A, CSU, UC, I)

**2 GLOBAL ISSUES**

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Introduces origins, current status and future trends of major transnational issues. Focus on global governance and responsibilities. Topics can include population trends, economic development, basic human needs, human rights, international conflict and security and environmental concerns. (A, CSU, UC, I)

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**GRAPHIC COMMUNICATIONS (GRC)**

FORMERLY PRINTING TECHNOLOGY

**15 WEB DESIGN**

**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: None.

Adobe Brackets or comparable HTML editor, CSS, and components of Adobe Design Suite with emphasis on graphic design principles and digital photography included in exercises and project work. Skill development in recognition of artwork appropriate for web site design. Students capture images, design, create, and post working web sites using Adobe Creative Cloud. (A, CSU, UC)

**17 ADOBE ILLUSTRATOR**

**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Printing Technology 17)**

PREREQUISITE: None.

Use Adobe Illustrator to design and create vector images that solve a variety of graphic problems. Hands-on work creating projects for reproduction. (A, CSU)

**20A INTRO TO APPLIED GRAPHICS – ADOBE TOOLS**

**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Graphic Communications 20**  
**and Printing Technology 20)**

PREREQUISITE: None.

Overview of graphic communication processes as related to the graphics industry. Terminology, input/output considerations, current trends, and hands-on projects using Adobe Photoshop, Adobe Illustrator, and Adobe InDesign for production operations. (A, CSU)

**20B INTRO TO APPLIED GRAPHICS - MEDIA**

**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Graphic Communications 18)**

PREREQUISITE: None.

Introductory production methods of graphic communication systems incorporating print media, web design, video production, and prototyping. Project work explores considerations and limitations of software for out-put. Units include professional development for the workplace. (A, CSU)

**22 DIGITAL MEDIA**

**3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: None

Introduction to digital media. Project work using an assortment of current software. Combine images, audio and video into cross-platform productions. Digital slide shows, image capture, and short video. (A, CSU)

- 23 VIDEO EDITING – ADOBE PREMIERE PRO**  
**3 units, 2 lecture hours, 3 lab hours**  
ADVISORY: Graphic Communications 20B, 27, 32, 320B, 327, or 332.  
Digital video editing techniques using Adobe Premiere Pro. (A, CSU)
- 24A INTRO 2-D ANIMATION WITH ADOBE ANIMATE**  
**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Graphic Communications 24)**  
PREREQUISITE: None  
Use Adobe Animate to author two-dimensional animation. Design and production of interactive media projects. (A, CSU, UC)
- 27 DIGITAL VIDEO PRODUCTION**  
**3 units, 2 lecture hours, 3 lab hours**  
PREREQUISITE: None.  
Introduction to digital video production with emphasis on editing techniques. Units include planning, storytelling, vocabulary, camera handling, lighting, sound, and working with professional editing software. Students complete short exercises and create video projects. (A, CSU, UC)
- 28 INDEPENDENT STUDY – GRAPHICS**  
**1-3 units, 3-9 lab hours**  
ADVISORY: Eligibility for English 1A recommended. Completion of one of the following courses: Graphic Communications 15, 17, 20A, 22, 27 or 30.  
Individual graphic projects designed to allow the student to expand on a specific area of previous study. The production of a pre-employment portfolio with field trips to professional studios, shops, television stations, newspapers or galleries. (A, CSU)
- 30 ADOBE INDESIGN/PROFESSIONAL PUBLISHING**  
**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Printing Technology 30)**  
PREREQUISITE: None.  
Adobe InDesign page layout software. Emphasis on production for print, e-book, and emerging technologies. Components from Adobe Photoshop and Adobe Illustrator programs. (A, CSU)
- 31 INTERMEDIATE PHOTOSHOP**  
**3 units, 2 lecture hours, 3 lab hours**  
PREREQUISITE: None.  
Adobe Photoshop with emphasis on graphic design and production. Units include production for print, web, and digital media applications. (A, CSU, UC)
- 32 CINEMATOGRAPHY**  
**3 units, 2 lecture hours, 3 lab hours**  
PREREQUISITE: None.  
Production processes and post-production processes with a focus on technical aspects. Lighting, audio, camera work, and color correction. (A, CSU, UC)
- 34 INTRODUCTION TO 3-D ANIMATION**  
**3 units, 2 lecture hours, 3 lab hours**  
PREREQUISITE: None.  
Introduction to 3-D animation using Blender software. Projects dealing with workflow, interface, layouts, objects, lighting, animation, and rendering. (A, CSU, UC)
- 38 VIDEO POST PRODUCTION**  
**2 units, 2 lecture hours**  
ADVISORY: Graphic Communications 23 or 323.  
Post-Production techniques for adjusting audio and video project quality. (A, CSU)
- 39A INTRODUCTION TO GRAPHIC DESIGN**  
**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Printing Technology 39 and**  
**Graphic Communications 39)**  
COREQUISITE: Graphic Communications 20A or 320A.  
Principles and methods of graphic communication. Projects incorporate symbols and typography into visual design, exploring interrelationships between formal elements and symbolic content. (A, CSU, UC)
- 40A INTERMEDIATE GRAPHIC DESIGN**  
**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Printing Technology and Graphic**  
**Communications 40)**  
PREREQUISITE: Graphic Communications 39A.  
Advanced principles and methods of graphic communication. Projects incorporate symbols and typography into visual design, exploring interrelationships between the formal elements and symbolic content. (A, CSU, UC)
- 41 VISUAL COMMUNICATIONS**  
**3 units, 2 lecture hours, 3 lab hours,**  
**(Formerly Printing Technology 41)**  
PREREQUISITE: None.  
Survey of the significant techniques and examples of visual communication as employed by the mass media, including newspapers, magazines, television, and advertising. Discussion and demonstration of the tools used in analyzing visual communication. Creation and analysis of images for print, web, and video. (A, CSU, UC)



- 47 INTRODUCTION TO MEDIA APPRECIATION**  
**3 units, 3 lecture hours**  
 PREREQUISITE: None.  
 Fundamental principles and foundational competencies for digital artists and designers. (A, CSU, UC)
- 51 STORYBOARDING**  
**1 unit, 2 lecture hours, (9 weeks)**  
 PREREQUISITE: None.  
 Pre-visualization for animation, video, web, and game production. Introduction to media-specific storyboarding processes and techniques. (A, CSU)
- 53 ADOBE AFTER EFFECTS**  
**3 units, 2 lecture hours, 3 lab hours**  
 PREREQUISITE: None.  
 Introduction to motion graphics and video post-processing using Adobe After Effects. Projects incorporate a series of techniques used to create video special effects. (A, CSU)
- 55 SOCIAL MEDIA DESIGN**  
**2 units, 2 lecture hours, 1 lab hour**  
 PREREQUISITE: None.  
 Graphic design principles and processes directly related to current social media platforms and interactions. (A, CSU)
- 300A ADOBE ACA CERTIFICATION**  
**0.5-3 lab hours, (Pass/No Pass), (Open Entry/Open Exit), (Repeats = 99)**  
 PREREQUISITE: None.  
 The Adobe Certified Associate coursework provides students an opportunity to demonstrate proficiency in Adobe digital communication tools by passing an industry recognized exam. Preparation for the testing process, environment, and depth of knowledge required to successfully complete the Adobe Certified Associate exam is presented as well as opportunities to pretest.
- 315 WEB DESIGN**  
**3 lecture hours, 3 lab hours, (Pass/No Pass), (Repeats = 99)**  
 PREREQUISITE: None.  
 Adobe Brackets or comparable HTML editor, CSS, and components of Adobe Design Suite with emphasis on graphic design principles and digital photography included in exercises and project work. Skill development in recognition of artwork appropriate for web site design. Students capture images, design, create, and post working web sites using Adobe Creative Cloud.
- 317 ADOBE ILLUSTRATOR**  
**2 lecture hours, 3 lab hours, (Pass/No Pass), (Repeats = 99)**  
 PREREQUISITE: None.  
 Use Adobe Illustrator to design and create vector images that solve a variety of graphic problems. Hands-on work creating projects for reproduction.
- 320A INTRO TO APPLIED GRAPHICS – ADOBE TOOLS**  
**2 lecture hours, 3 lab hours, (Pass/No Pass), (Repeats = 99)**  
 PREREQUISITE: None.  
 Overview of graphic communication processes as related to the graphics industry. Terminology, input/output considerations, current trends, and hands-on projects using Adobe Photoshop, Adobe Illustrator, and Adobe InDesign for production operations.
- 320B INTRO TO APPLIED GRAPHICS – MEDIA**  
**2 lecture hours, 3 lab hours, (Pass/No Pass), (Repeats = 99)**  
 PREREQUISITE: None.  
 Introductory production methods of graphic communication systems incorporating print media, web design, video production, and prototyping. Project work explores considerations and limitations of software for output. Units include professional development for the workplace.
- 322 DIGITAL MEDIA**  
**2 lecture hours, 3 lab hours, (Pass/No Pass), (Repeats = 99)**  
 PREREQUISITE: None.  
 Introduction to digital media. Project work using an assortment of current software. Combine images, audio and video into cross-platform productions. Digital slide shows, image capture, and short video.
- 323 VIDEO EDITING – ADOBE PREMIERE PRO**  
**2 lecture hours, 3 lab hours, (Pass/No Pass), (Repeats = 99)**  
 ADVISORY: Graphic Communications 27, 32, 320B, 327, or 332.  
 Digital video editing techniques using Adobe Premiere Pro.
- 324A INTRO TO 2-D ANIMATION WITH ADOBE ANIMATE**  
**2 lecture hours, 3 lab hours, (Pass/No Pass), (Repeats = 99)**  
 PREREQUISITE: None.  
 Use Adobe Animate to author two-dimensional animation. Design and production of interactive media projects.

**327 DIGITAL VIDEO PRODUCTION**

**2 lecture hours, 3 lab hours, (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: None.

Introduction to digital video production with emphasis on editing techniques. Units include planning, storytelling, vocabulary, camera handling, lighting, sound, and working with professional editing software. Students complete short exercises and create video projects.

**330 ADOBE INDESIGN/PROFESSIONAL PUBLISHING**

**2 lecture hours, 3 lab hours, (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: None.

Adobe InDesign page layout software. Emphasis on production for print, e-book, and emerging technologies. Components from Adobe Photoshop and Adobe Illustrator programs.

**331 INTERMEDIATE PHOTOSHOP**

**2 lecture hours, 3 lab hours, (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: None.

Adobe Photoshop with emphasis on graphic design and production. Units include production for print, web, and digital media applications.

**332 CINEMATOGRAPHY**

**2 lecture hours, 3 lab hours, (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: None.

Production processes and post-production processes with a focus on technical aspects. Lighting, audio, camera work, and color correction.

**334 INTRODUCTION TO 3-D ANIMATION**

**2 lecture hours, 3 lab hours, (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: None.

Introduction to 3-D animation using Blender software. Projects dealing with workflow, interface, layouts, objects, lighting, animation, and rendering.

**338 VIDEO POST PRODUCTION**

**2 lecture hours, (Pass/No Pass),  
(Repeats = 99)**

ADVISORY: Graphic Communications 23 or 323.

Post-Production techniques for adjusting audio and video project quality.

**339A INTRODUCTION TO GRAPHIC DESIGN**

**2 lecture hours, 3 lab hours,  
(Pass/No Pass), (Repeats = 99)**

COREQUISITE: Graphic Communications 20A or 320A.

Principles and methods of graphic communication. Projects incorporate symbols and typography into visual design, exploring interrelationships between formal elements and symbolic content.

**340A INTERMEDIATE GRAPHIC DESIGN**

**2 lecture hours, 3 lab hours, (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: Graphic Communications 39A.

Advanced principles and methods of graphic communication. Projects incorporate symbols and typography into visual design, exploring interrelationships between the formal elements and symbolic content.

**341 VISUAL COMMUNICATION**

**2 lecture hours, 3 lab hours, (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: None.

Survey of the significant techniques and examples of visual communication as employed by the mass media, including newspapers, magazines, television, and advertising. Discussion and demonstration of the tools used in analyzing visual communication. Creation and analysis of images for print, web, and video.

**347 INTRODUCTION TO MEDIA APPRECIATION**

**3 lecture hours, (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: None.

Fundamental principles and foundational competencies for digital artists and designers.

**351 STORYBOARDING**

**2 lecture hours, (9 weeks), (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: None.

Pre-visualization for animation, video, web, and game production. Introduction to media-specific storyboarding processes and techniques.

**353 ADOBE AFTER EFFECTS**

**2 lecture hours, 3 lab hours, (Pass/No Pass),  
(Repeats = 99)**

PREREQUISITE: None.

Introduction to motion graphics and video post-processing using Adobe After Effects. Projects incorporate a series of techniques used to create video special effects.

**GUIDANCE STUDIES**

SEE COUNSELING

**HEALTH INFORMATION TECHNOLOGY (HIT)**

FORMERLY MEDICAL RECORD TECHNOLOGY

**1 INTRODUCTION TO HEALTH INFORMATION MANAGEMENT****3 units, 3 lecture hours, (Formerly Medical Record Technology 1)**

ADVISORY: Eligibility for English 1A recommended.

Introduction to health care delivery systems, hospital organization, the medical record, the processes of health information management including access, retention, data collection, quantitative and qualitative analysis, and health information systems; accreditation, licensure, and regulatory requirements; the role of the health information management professional. (C-ID HIT 100X) (A, CSU)

**2 LEGAL ASPECTS OF HEALTH INFORMATION****3 units, 3 lecture hours, (Formerly Medical Record Technology 2)**

COREQUISITE: Health Information Technology 1. ADVISORY: Eligibility for English 1A recommended.

Legal basis for the control, use, and release of health information; concepts of consent for treatment; HIPAA privacy and security rules; federal and state laws and regulations governing the handling of special health information; ethical practices in health information; procedures used in responding to requests for health information. (C-ID HIT 102X) (A, CSU)

**3 QUALITY IMPROVEMENT****2 units, 2 lecture hours, (Formerly Medical Record Technology 3)**

PREREQUISITE: Computer Information Technology 15 and Health Information Technology 1. ADVISORY: Eligibility for English 1A recommended.

History and development of quality improvement efforts in health care; quality assessment techniques and processes; software tools for data collection and reporting; roles and responsibilities of individuals involved in quality improvement; medical staff organization; peer review, utilization review, and risk management. (A, CSU)

**4 DISEASE PROCESS****3 units, 3 lecture hours**

PREREQUISITE: Health Information Technology 10 and Biology 5 or 55. ADVISORY: Eligibility for English 1A recommended.

General principles of pathophysiology; systematic study of symptoms, signs, etiology, course, complications, prognosis and prevention of human disease; the modern practices of diagnosis and treatment. (C-ID HIT 105X) (A, CSU)

**5 ICD CODING: DIAGNOSES****3 units, 3 lecture hours**

PREREQUISITE: Health Information Technology 1 and 10. COREQUISITE: Health Information Technology 4. ADVISORY: Eligibility for English 1A recommended.

Medical coding of diagnoses using the International Classification of Diseases (ICD); overview of nomenclatures and classification systems; coding rules, principles, guidelines, and conventions; state and federal regulations impacting coding; documentation to support coding. Introduction to coding software applications. (A, CSU)

**6 ICD CODING: PROCEDURES****3 units, 3 lecture hours**

PREREQUISITE: Health Information Technology 1 and 5. ADVISORY: Eligibility for English 1A recommended.

Medical coding of procedures using the International Classification of Diseases - Procedure Coding System; coding rules, principles, guidelines, and conventions; regulations impacting coding; documentation to support coding. Use of coding software applications. (A, CSU)

**7 DIRECTED PRACTICE****3 units, 1 lecture hour, 6 lab hours**

PREREQUISITE: Health Information Technology 2, 3, 5, 6, and 14. COREQUISITE: Health Information Technology 8 and 16. ADVISORY: Eligibility for English 1A recommended.

Practical application of advanced principles and practices of health information technology; directed practice combines a supervised field experience performing HIT competencies in an affiliated healthcare organization with virtual laboratory skills practice. (A, CSU)

**8 HEALTH INFORMATION MANAGEMENT AND SUPERVISION****3 units, 3 lecture hours**

PREREQUISITE: Health Information Technology 1. ADVISORY: Eligibility for English 1A recommended.

Effective management of technical and human factors in health information management: leadership, work design and process improvement, human resources, training and development, strategic and organizational management, financial management, project management, cultural diversity, and ethics. (C-ID HIT 210X) (A, CSU)

**9 HOSPITAL AND HEALTH STATISTICS****2 units, 2 lecture hours**

PREREQUISITE: Computer Information Technology 15 and Health Information Technology 1. ADVISORY: Eligibility for English 1A recommended. Math 11 or equivalent recommended.

Basic hospital and health statistics including the sources, definitions, and calculation of common rates and percentages; methods for collection, computation and reporting; analysis of data; common research methodologies used in healthcare. (C-ID HIT 206X) (A, CSU)

**10 MEDICAL TERMINOLOGY****3 units, 3 lecture hours, (Formerly Medical Record Technology 10)**

ADVISORY: Eligibility for English 1A recommended.

Medical vocabulary with concentration on prefixes, suffixes, and root words. Emphasis on word dissection and definitions as applied to the body systems including the terminology used in examinations, diagnoses, procedures, laboratory investigations, and medical reports. (C-ID HIT 103X) (A, CSU)

**11 CPT CODING****3 units, 3 lecture hours**

PREREQUISITE: Health Information Technology 10. COREQUISITE: Health Information Technology 4. ADVISORY: Eligibility for English 1A recommended.

Common Procedural Terminology (CPT) coding; Healthcare Common Procedure Coding System (HCPCS), and Ambulatory Pay Classification (APCs); emphasis on application of coding conventions and guidelines, application to billing processes and reimbursement issues; use of manual and electronic coding systems. (C-ID HIT 104X) (A, CSU)

**12 HEALTH INFORMATION IN ALTERNATIVE SETTINGS****2 units, 2 lecture hours**

PREREQUISITE: Health Information Technology 1. ADVISORY: Eligibility for English 1A recommended.

Introduction to non-traditional health information systems and settings including organizational structure, accreditation and licensing requirements, documentation requirements, and the role of the health information practitioner. Emphasis on long-term care, mental health, and ambulatory care settings. (A, CSU)

**14 HIM TECHNOLOGY AND SYSTEMS****3 units, 3 lecture hours**

PREREQUISITE: Health Information Technology 1 and Computer Information Technology 15. ADVISORY: Eligibility for English 1A recommended.

Electronic health records, computer applications, and information systems used in healthcare and health information management; system selection, implementation, and analysis; data quality, storage, retrieval and reporting; privacy and security. (C-ID HIT 208X) (A, CSU)

**15 MEDICAL CODING DIRECTED PRACTICE****1 unit, 3 lab hours, (Pass/No Pass)**

PREREQUISITE: Health Information Technology 5 and 6. COREQUISITE: Health Information Technology 11. ADVISORY: Eligibility for English 1A recommended.

Supervised practice of diagnostic and procedure coding; demonstration of knowledge in regulatory compliance, revenue cycle, and reimbursement methodologies. Practice with AHIMA Virtual Lab encoding and revenue cycle applications. (A, CSU)

**16 HEALTHCARE REIMBURSEMENT****2 units, 2 lecture hours**

PREREQUISITE: Health Information Technology 1. COREQUISITE: Health Information Technology 6. ADVISORY: Eligibility for English 1A recommended.

Functions and history of healthcare payment systems including insurance plans, government healthcare programs, and managed care; fraud and abuse compliance; revenue cycle management including claims processing, electronic submission, and tools for accurate reimbursement. (A, CSU)

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**HEALTH SCIENCE (HLTH)**


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**1 CONTEMPORARY HEALTH ISSUES****3 units, 3 lecture hours, (Formerly Health Education 1)**

ADVISORY: Eligibility for English 1A recommended.

Contemporary scientific concepts and medical information designed to promote health, prevent disease, increase life span and improve the quality of life involving the cardiovascular system, physical fitness, nutrition, emotional health, human sexuality, sexually transmitted diseases, reproduction and birth control, heredity, substance abuse, cancer, consumer and environmental health and health care systems. (C-ID PHS 100) (A, CSU-GE, UC)

**2 FIRST AID AND SAFETY**  
**3 units, 3 lecture hours, (Formerly Health Education 2)**

ADVISORY: Eligibility for English 1A recommended.

Basic concepts and skills necessary to give first aid (including cardiopulmonary resuscitation). Satisfies the requirements for American Red Cross or American Heart Association certification in Adult, Child and Infant Cardiopulmonary Resuscitation (CPR) and Basic First Aid. (C-ID KIN 101) (A, CSU, UC)

**3 CONCEPTS IN HEALTH AND FITNESS**  
**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Students learn about the different components of physical fitness, cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition as related to healthy living. (C-ID KIN 101) (A, CSU, UC)

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**HEATING, VENTILATION, & AIR CONDITIONING (HVAC) - FORMERLY AIR CONDITIONING**

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**50 PRINCIPLES OF HVAC**  
**2 units, 2 lecture hours, 1 lab hour, (Formerly Air Conditioning 50)**

ADVISORY: Applied Technology 10, English 1A, and Applied Technology 130.

In HVAC Introduction, students are introduced to basic principles of safety, air conditioning, heating, air distribution and electricity. Students learn theory and application of HVAC technology while practicing HVAC system performance and measurement in the HVAC laboratory. (A, CSU)

**51 ELECTRICITY FOR HVAC**  
**6.5 units, 5 lecture hours, 5 lab hours, (Formerly Air Conditioning 51)**

ADVISORY: Heating, Ventilation, and Air Conditioning 50 and 53, Applied Technology 10 and 130.

In Electricity for HVAC, students focus on the electrical components and controls that comprise an HVAC system. Students build their inventory of HVAC electrical skillsets. Students learn the theory and application of HVAC technology and learn electrical measurement techniques in the laboratory. (A, CSU)

**52 HEATING SYSTEMS**  
**6.5 units, 5 lecture hours, 5 lab hours, (Formerly Air Conditioning 52)**

ADVISORY: Heating, Ventilation, and Air Conditioning 50 and 54, Applied Technology 10 and 130, and English 1A.

In HVAC Heating Systems, students examine various heating technologies and learn how to differentiate between furnace types using component inspection methods. Fuel gas properties are explored and matched to appropriate ignition systems. Furnace venting requirements are described. Students also assemble an inventory of practical skillsets including combustible gas and refrigerant leak detection methods, in addition to ignition sequence charting and wiring diagramming. Heat pump technologies are examined with emphasis on the special design features of these reverse cycle refrigeration systems. (A, CSU)

**53 SYSTEM ANALYSIS AND REGULATIONS**  
**6.5 units, 5 lecture hours, 5 lab hours, (Formerly Air Conditioning 53)**

ADVISORY: Heating, Ventilation, and Air Conditioning 50, Applied Technology 10 and 130.

In HVAC System Analysis and Regulation, students evaluate operating HVAC systems while learning EPA section 608 refrigerant handling techniques. Regulations are examined in preparation for the EPA section 608 test. (A, CSU)

**54 BRAZING AND MOTOR TECHNOLOGY**  
**6.5 units, 5 lecture hours, 5 lab hours, (Formerly Air Conditioning 54)**

ADVISORY: Heating, Ventilation, and Air Conditioning 50, Applied Technology 10 and 130.

Students describe the uses of electric motors in the HVAC trade, identify the parts of electric motors, identify distinguishing features of the standard motor types, calculate operational speeds, and identify horsepower requirements. Students draw motor circuit diagrams and troubleshoot common motor faults. Students describe the function of an air-side economizer, braze copper connections, and evacuate a refrigerant circuit to specified micron levels. (A, CSU)

**350 RETA/CARO READY – EPA SECTION 608 TECHNICIAN CERTIFICATION****3 lecture hours, (Open Entry/Open Exit)**

ADVISORY: Applied Technology 10 and Heating, Ventilation, and Air Conditioning 53. Proficiency in reading and writing in English and knowledge of basic algebra concepts recommended.

This course prepares students and HVACR (Heating, Ventilation, Air Conditioning, and Refrigeration) technicians for EPA (Environmental Protection Agency), Section 608 Technician Certification (Type I, II, III, and/or Universal). EPA Section 608 Refrigerant Certification is a federal certification requirement for any HVACR technician who maintains, repairs, or disposes of equipment that could release ozone depleting refrigerants into the atmosphere. The certification is an integral part of the course and will be conducted by an approved testing organization proctor. Advisory: In addition to normal registration fees, a Section 608 exam fee will be imposed by the certifying organization. Fee payment is the student's responsibility via electronic portal on the day of final exam.

**351 RETA/CARO READY – INDUSTRIAL REFRIGERATION I****3 lecture hours, (Open Entry/Open Exit)**

ADVISORY: Applied Technology 10 and Heating, Ventilation, and Air Conditioning 53. Proficiency in reading and writing in English and knowledge of basic algebra concepts recommended.

This course prepares students and HVACR technicians for the CARO (Certified Assistant Refrigeration Operator) certification exam by RETA (Refrigeration Engineers and Technicians Association), which is a highly recognized third party certification in the industrial refrigeration industry sector. The operating principles, function, maintenance, repair, and safety of ammonia-based industrial refrigeration systems are explored throughout the coursework, with emphasis on standards set-forth by RETA. Advisories: 1) In addition to normal registration fees, a RETA book exam fee will be imposed by the certifying organization. Fee payment is the student's responsibility via electronic portal on the day of final exam; 2) CARO certification is not included in this course, and must be taken separately through RETA.

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**HISTORY (HIST)**

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**1 WESTERN CIVILIZATION TO 1648****3 units, 3 lecture hours**

ADVISORY: English 1A.

A survey of the political, social, economic, cultural, and intellectual developments of European civilization from its prehistoric antecedents in the Middle East to the rise of modern European nations in the seventeenth century. (C-ID HIST 170) (A, CSU-GE, UC, I)

**2 WESTERN CIVILIZATION SINCE 1648****3 units, 3 lecture hours**

ADVISORY: English 1A.

The philosophical, political, and economic development of the European civilizations and their "offspring" in the New World and elsewhere from the 17th century to the present era. (C-ID HIST 180) (A, CSU-GE, UC, I)

**3 HISTORY OF ANCIENT ROME****3 units, 3 lecture hours**

ADVISORY: English 1A and History 1.

The history, politics, social life, literature, art, architecture, religion and archaeology of Rome from the foundation of the city to the early Byzantine period. (A, CSU-GE, UC, I)

**11 HISTORY OF THE UNITED STATES TO 1877****3 units, 3 lecture hours**

ADVISORY: English 1A.

Political, social, and economic development from the colonial period through the Reconstruction Era. (C-ID HIST 130) (A, CSU-GE, UC, I)

**12 HISTORY OF THE UNITED STATES SINCE 1877****3 units, 3 lecture hours**

ADVISORY: English 1A.

Political, social and economic development since Reconstruction Era; the US as a world power. (C-ID HIST 140) (A, CSU-GE, UC, I)

**12H HONORS HISTORY OF THE UNITED STATES SINCE 1877****3 units, 3 lecture hours**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Political, social and economic development since the Reconstruction Era; the U. S. as a world power. In addition, honors sections offer more in-depth study of modern U. S. history, critically evaluate controversies in historiography, and place greater emphasis on the use of history in understanding the modern world. (C-ID HIST 140) (A, CSU-GE, UC, I)

**15 HISTORY OF THE BRITISH ISLES****3 units, 3 lecture hours**

ADVISORY: English 1A.

Political, social, economic, and cultural history of the British Isles from pre-history to the present. (A, CSU-GE, UC, I)

- 17 HISTORY OF THE MUSLIM WORLD TO 1405**  
**3 units, 3 lecture hours**  
 ADVISORY: English 1A and History 1.  
 An analytical survey of Islamic history from the life of Muhammad to the Ottoman Empire. Discussion of the political and military aspects of Islam, Islamic science and medicine, and mystical movements within Islam. (A, CSU-GE, UC, I)
- 18 HISTORY OF ANCIENT GREECE**  
**3 units, 3 lecture hours**  
 ADVISORY: English 1A and History 1.  
 An intensive survey of Greek history from the Bronze Age to the Hellenistic period. Discussion of the Homeric poems, the development of the polis system in Athens and Sparta, the Persian and Peloponnesian Wars, and Hellenistic science and technology. (A, CSU-GE, UC, I)
- 20 WORLD HISTORY I, TO 1600**  
**3 units, 3 lecture hours**  
 ADVISORY: English 1A.  
 Economic, political, and social developments in World Civilization from the emergence of human communities to around 1600. (C-ID HIST 150) (A, CSU-GE, UC, I)
- 21 UNITED STATES CIVIL WAR**  
**3 units, 3 lecture hours**  
 ADVISORY: English 1A and History 11.  
 Causes, events, and consequences of the American Civil War. (A, CSU-GE, UC, I)
- 22 HISTORY OF AMERICAN WOMEN**  
**3 units, 3 lecture hours, (See also Women's Studies 22)**  
 ADVISORY: English 1A.  
 Women in American history: social, political, and economic actions and reactions of American women; racial, ethnic, religious, geographic, and class differences. (A, CSU-GE, UC, I)
- 23 WORLD HISTORY II, SINCE 1500**  
**3 units, 3 lecture hours**  
 ADVISORY: English 1A.  
 Economic, political, and social development in world history from around 1500 to the present. (C-ID HIST 160) (A, CSU-GE, UC, I)
- 25 HISTORY OF RELIGION IN THE UNITED STATES**  
**3 units, 3 lecture hours**  
 ADVISORY: English 1A.  
 Survey of religion in the United States from the colonial period to the present. (A, CSU-GE, UC, I)
- 29 HISTORY OF MEXICO, COLONIAL TO CONTEMPORARY PERIOD**  
**3 units, 3 lecture hours, (See also Chicano-Latino Studies 29)**  
 ADVISORY: English 1A.  
 A social, economic and political survey of Mexican history from the colonial (1521) to the contemporary period. (A, CSU-GE, UC, I)
- 30 CALIFORNIA HISTORY**  
**3 units, 3 lecture hours**  
 ADVISORY: English 1A.  
 Growth and development of California politically, economically, and culturally from 1523 to the present, emphasizing the period since statehood. (A, CSU-GE, UC, I)
- 34 HISTORY OF THE AMERICAN CIVIL RIGHTS MOVEMENT**  
**3 units, 3 lecture hours, (See also African-American Studies 34)**  
 ADVISORY: English 1A.  
 History of the struggle for civil and human rights in American history, focusing on the African American movement. Legal, moral, ethical, religious and humanistic foundations of the Movement. Forms of discrimination, segregation and oppression and various forms of resistance to them. Efforts to protect human and civil rights in the United States. (A, CSU-GE, UC, I)

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**HMONG**SEE FOREIGN LANGUAGES

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**HONORS (HONORS)**

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**ANTHROPOLOGY 2H, HONORS CULTURAL ANTHROPOLOGY****3 units, 3 lecture hours, (Formerly Honors 2A)**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program. See Honors Program listing in the college catalog.

Principles, methods, and concepts of cultural anthropology. The relationship between culture, society, and the individual. A cross-cultural, integrated analysis of human marriage and family, child rearing, personality development, kinship, social institutions, ideology, politics and social control, economics and ecological adaption, language, artistic expression, and cultural change. In addition, the Honors course takes a greater cross-disciplinary perspective, places greater emphasis on the use of anthropology on the understanding of the modern world, and more critically evaluates the methods and theory of anthropology. (C-ID ANTH 120) (A, CSU-GE-UC, I)

**ART 5H, HONORS ART HISTORY ANCIENT TO MEDIEVAL****3 units, 3 lecture hours, (Formerly Honors 5A)**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

A survey of the Western Art from prehistory to the Medieval period including Neolithic, ancient Near East, Egyptian, Greek, Roman, Islamic, Byzantine, Romanesque and Gothic cultures. Honors section will include additional readings of primary and secondary source material along with oral presentations and class discussions. (C-ID ARTH 110) (A, CSU-GE, UC, I)

**ART 6H, HONORS ART HISTORY RENAISSANCE TO MODERN****3 units, 3 lecture hours, (Formerly Honors 6A)**

ADVISORY: English 1AH. Meet the qualifications for consideration for acceptance into the Leon S. Peters Honors Program recommended. See Honors Program listing in the college catalog.

A survey of Western Art from the beginning of the Renaissance to the present. Major art styles and movements covered include Renaissance, Baroque, Neo-Classicism, Impressionism, Cubism, Surrealism, etc. Honors sections will include additional readings of primary and secondary source material, class discussions and oral presentations. (C-ID ANTH 120) (A, CSU-GE, UC, I)

**COMMUNICATION 8H, HONORS GROUP COMMUNICATION****3 units, 3 lecture hours**

ADVISORY: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

An introduction to group communication as a vehicle for solving problems, reaching decisions, and making recommendations on policy. Students will study and practice the theories, behaviors, and processes of group communication. Honors sections will also focus on a more in-depth analysis of group communication theory and its application. (A, CSU-GE, UC, I)

**ECONOMICS 40H, HONORS INTRODUCTION TO MICROECONOMICS****3 units, 3 lecture hours, (Formerly Economics 1BH)**

PREREQUISITE: Mathematics 103. ADVISORY: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

The "free enterprise" system. Theories of consumer and individual firm behavior. Market structure analysis and comparison. Government programs to assist, regulate, and promote various industries. The American labor movement and international trade. In addition, Honors sections will discuss and analyze the works of historical economic figures. (C-ID ECON 201) (A, CSU-GE, UC, I)



## **ECONOMICS 50H, HONORS INTRODUCTION TO MACROECONOMICS**

**3 units, 3 lecture hours, (Formerly Economics 1AH)**

PREREQUISITE: Mathematics 103. ADVISORY: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

An introductory analysis of aggregate economic variables. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics and economic growth. Honors sections will discuss and analyze the works of historical economic figures. (C-ID ECON 202) (A, CSU-GE, UC, I)

## **ENGLISH 1AH, HONORS READING AND COMPOSITION**

**4 units, 4 lecture hours, (Formerly Honors 1E)**

PREREQUISITE: English 125 and 126 or English for Multi-Lingual Students 167W and 168R, or English for Multi-Lingual Students 180RW or placement by multiple measures. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Reading, analyzing, and writing college-level prose, with emphasis on the expository: studying writing as a process; exploring different writing strategies; summarizing, editing, and critiquing; conducting research (gathering, organizing, evaluating, integrating and documenting information). Honors sections may cover additional subject matter such as creative writing, peer response, the study of oral narrative and its relationship to writing and composing on the computer. (C-ID ENGL 100) (A, CSU-GE, UC, I)

## **ENGLISH 3H, HONORS CRITICAL READING & WRITING**

**3 units, 3 lecture hours**

PREREQUISITE: English 1A. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Developing critical thinking skills in reading and writing beyond English 1A. Reasoning for analysis and argument writing based mainly on non-fiction readings. Honors sections may cover additional subject matter, such as more in-depth analytical research, extensive analysis of rhetorical discourse, and the study of how critical reasoning and argument is utilized in content area research and practice. (C-ID ENGL 105) (A, CSU-GE, UC, I)

## **HISTORY 12H, HONORS HISTORY OF THE UNITED STATES SINCE 1877**

**3 units, 3 lecture hours**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Political, social and economic development since the Reconstruction Era; the U. S. as a world power. In addition, honors sections offer more in-depth study of modern U. S. history, critically evaluate controversies in historiography, and place greater emphasis on the use of history in understanding the modern world. (C-ID HIST 140) (A, CSU-GE, UC, I)

## **HONORS 1A, HONORS SCIENCE COLLOQUIUM: BIOLOGICAL SCIENCE THROUGH SCHOLARLY RESEARCH**

**1 unit, 1 lecture hour**

ADVISORY: Meet the qualifications for acceptance into the Honors Program. See Honors Program listing in college catalog.

Interdisciplinary approach to biological research integrating scientific writing and scholarly presentation methods. Critical topics and concepts beyond content offered in Biology 11A Honors. (A, CSU, UC approved as variable topics; evaluation completed by individual campuses after admission.)

## **HONORS 1C, HONORS HUMANITIES COLLOQUIUM: HUMANITIES THROUGH THE AGES**

**1 unit, 1 lecture hour**

ADVISORY: Meet the qualifications for acceptance into the Honors Program. See Honors Program listing in college catalog.

Interdisciplinary investigation of human creativity and expression as they intersect across the Humanities. Examination of various topics as manifested in literature, poetry, visual arts, performing arts, music and philosophy. (A, CSU, UC)

## **HONORS 1D, HONORS BUSINESS, ECONOMICS AND ACCOUNTING COLLOQUIUM: THE LOCAL ECONOMY AND AGRIBUSINESS**

**1 unit, 1 lecture hour**

ADVISORY: Meet the qualifications for acceptance into the Honors Program. See Honors Program listing in college catalog.

Interdisciplinary investigation of aspects of economic theory and business systems and their relationship to economic cycles and general business and accounting practices. Global and national economic, business, and accounting theories are applied to the conditions of agribusiness in the San Joaquin Valley. (A, CSU, UC)

**HONORS 1E, HONORS SOCIAL SCIENCE  
COLLOQUIUM: CONTEMPORARY ISSUES  
IN SOCIAL SCIENCE**

**1 unit, 1 lecture hour**

ADVISORY: Meet the qualifications for acceptance into the Honors Program. See Honors Program listing in college catalog.

Interdisciplinary investigation of a contemporary issue in society, culture, and human behavior. Topics studied and researched in relationship to anthropological and psychological theories. (A, CSU, UC)

**HONORS 1F, HONORS PHI THETA KAPPA  
COLLOQUIUM: PHI THETA KAPPA STUDY  
TOPICS**

**1 unit, 1 lecture hour**

ADVISORY: Meet the qualifications for acceptance into the Honors Program. See Honors Program listing in college catalog.

Interdisciplinary investigation of the annual study topic of Phi Theta Kappa International Honor Society. Topic determined by the Honors Study Topic Guide and drawn from the humanities, natural sciences and social sciences. (A, CSU)

**LINGUISTICS 10H, HONORS INTRODUCTION TO  
LANGUAGE**

**3 units, 3 lecture hours**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Examination of the nature of language, its historical development, its structural elements, the stages of language acquisition, and their applications in the world. Emphasis on systematic linguistic analysis of language systems and usage. Honors sections will cover additional subject matter such as cognitive linguistics, forensic linguistics, and computational linguistics. (A, CSU-GE, UC, I)

**MATHEMATICS 11H, HONORS ELEMENTARY  
STATISTICS**

**4 units, 4 lecture hours**

PREREQUISITE: Mathematics 103 or placement by multiple measures. ADVISORY: Meet the qualifications for consideration into the Honors Program recommended. See Honors Program listing in the college catalog.

Topics include descriptive measures, probability, probability distributions, sampling distributions, central limit theorem, one and two sample hypothesis tests, estimation, correlation, regression and analysis of variance. Honors work challenges students to be more analytical through expanded assignments. (C-ID MATH 110) (A, CSU-GE, UC, I)

**PHILOSOPHY 1AH, HONORS THEORIES OF  
KNOWLEDGE AND REALITY**

**3 units, 3 lecture hours, (Formerly  
Honors 1P)**

COREQUISITE: English 1A. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

An introduction to traditional and contemporary views on the nature of knowledge, truth, and thought; alternative views of God, the universe and human nature. Develops skills in philosophical analysis and logical thinking. Honors sections may also focus on an historical overview or a more in-depth study of a significant branch of philosophy e.g. philosophy of language or philosophy of mind. (C-ID PHIL 100) (A, CSU-GE, UC, I)

**PHILOSOPHY 1CH, HONORS ETHICS**

**3 units, 3 lecture hours**

COREQUISITE: English 1A. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Reading and critical analysis of primary sources on moral theory. Examinations of ethical concepts such as good, evil, and moral obligation. Conditions necessary to ethical decision-making—conscience, moral rules, justice, and free will—may also be discussed. Honors sections may also involve a more in-depth study of a significant area of ethics or moral philosopher, and will require additional writing. (C-ID PHIL 120) (A, CSU-GE, UC, I)

**PHILOSOPHY 2H, HONORS CRITICAL  
REASONING AND ANALYTIC WRITING**

**3 units, 3 lecture hours**

PREREQUISITE: English 1A. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Principles and methods of good reasoning, with an emphasis on deductive logic, including formal techniques of sentential logic. Includes the identification of arguments, developing and assessing basic deductive and inductive reasoning, common fallacies, and application of each element to various areas of study and real world situations. Honors sections may also focus on an historical overview, or a more in-depth study of a significant branch of philosophy, e.g., environmental ethics or philosophy of race. (C-ID ENGL 105) (A, CSU-GE, UC, I)

**POLITICAL SCIENCE 2H, HONORS AMERICAN GOVERNMENT**

**3 units, 3 lecture hours**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Analysis of political and judicial institutions and processes, political ideology, political economy, the role of the media, civil rights, California state and local government. Satisfies the U.S. Constitution requirements and the national, state and local government requirements for transfer students. In addition Honors sections investigate in detail the original design of the American political system, including the values imbued in the Constitution, the construction of the federal system, and the legal responsibilities of the major actors, and contrast those features with the current conditions in American politics. Emphasis is given to explaining the differences between the two situations, and requiring students to suggest how access to the present system can be gained and used. (C-ID POLS 110) (A, CSU-GE, UC, I)

**PSYCHOLOGY 2H, HONORS GENERAL PSYCHOLOGY**

**3 units, 3 lecture hours, (Formerly Honors 7P and Psychology 7H)**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Scientific study of behavior and mental processes. Topics include history of psychology, research methods, biopsychology, lifespan development, sensation and perception, consciousness and altered states, learning and memory, thought and language, intelligence, motivation and emotion, personality, mental illness and therapy, stress and health, social psychology, and the social and cultural influences that affect behavior. The Honors section of this course places a greater emphasis on understanding the human being as an integrated physiological, social, and psychological organism and further enriches that perspective with data and theories from related disciplines. (C-ID PSY 110) (A, CSU-GE, UC, I)

**SOCIOLOGY 1AH, HONORS INTRODUCTION TO SOCIOLOGY**

**3 units, 3 lecture hours**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in college catalog.

Basic concepts, theoretical approaches, and methods of sociology. Analysis and explanation of social systems, socialization, and self, institutions, stratification, inter/intra-group dynamics, multi-/cross-cultural relations, demography, deviance, collective behavior, social change, and global trends. The Honors section of this course places a greater emphasis on methods of conducting scientific research in the field of Sociology. Additional emphasis is placed on contemporary social issues as explored through supplemental readers or texts. (C-ID SOC 110) (A, CSU-GE, UC, I)

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**HUMAN SERVICES (HS)**

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**10 INTRODUCTION TO AGING STUDIES**  
**3 units, 3 lecture hours, (See also Sociology 10)**

ADVISORY: English 1A.

Overview of social, economic, biological and psychological aspects of aging. Exploration of challenges and strengths of the aging people with emphasis on consumerism, housing, health, leisure time, family roles, retirement, widowhood and sexuality. (A, CSU-GE, UC, I)

**11 ELDER CARE HUMAN SERVICES**  
**3 units, 3 lecture hours**

COREQUISITE: Human Services 10. ADVISORY: English 1A.

Instruction for the provision of human services to elders and their support systems. Emphasis on the application of social work theories and perspectives and integrative service provision for strengths based, empowerment client outcomes. (A, CSU)

**18 ALCOHOL AND DRUG ABUSE COUNSELING: PROFESSIONAL AND PERSONAL GROWTH**  
**2 units, 2 lecture hours**

ADVISORY: English 1A.

Provides techniques to establish optimal performance and the well-being of the Alcohol and Drug Abuse helping professional. (A, CSU)

**19A WORK EXPERIENCE (COOPERATIVE),  
OCCUPATIONAL****1-8 units**

PREREQUISITE: Human Services 20. COREQUISITE: Human Services 24. Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors. ADVISORY: English 1A.

Supervised employment extending the classroom based on occupational learning related to human services. Collaborative learning objectives established specific to human services. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**19B WORK EXPERIENCE (COOPERATIVE),  
OCCUPATIONAL****1-8 units**

PREREQUISITE: Human Services 42 and 43. COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to human services. Collaborative learning objectives established specific to human services. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**20 INTRODUCTION TO SOCIAL WELFARE****3 units, 3 lecture hours**

ADVISORY: English 1A.

Introduction to the social, economic, political, historical and philosophical components in the development of social welfare and social work in western society. Emphasis on knowledge base, value systems, and specific fields of social work practice. (A, CSU, UC)

**24 FUNDAMENTALS OF INTERVIEWING AND  
COUNSELING****3 units, 3 lecture hours**

ADVISORY: English 1A.

Principles of interviewing and counseling, both theory and practice. Focus on specific skills within a human service setting. Analysis of the dynamics between counselor and client. (A, CSU)

**25 ASSERTIVENESS TRAINING****2 units, 2 lecture hours, (See also Women's  
Studies 25)**

ADVISORY: English 1A.

Becoming more effective and creative in expressing oneself in a courteous and dignified manner. Discovering the communication options available in various life situations. (A, CSU)

**30 GROUP AND COMMUNITY SOCIAL  
SERVICES****3 units, 3 lecture hours**

COREQUISITE: Human Services 20. ADVISORY: English 1A.

Methods of human services and social work intervention through organizational, community, and social policy change action, including analysis of challenges and strengths for client empowerment. (A, CSU)

**40 ALCOHOL AND DRUG ABUSE  
COUNSELING: LAW AND ETHICS,  
PREVENTION, EDUCATION, OUTREACH  
AND REFERRAL****3 units, 3 lecture hours**

ADVISORY: English 1A.

Classification of drugs, legal solutions, restrictions, community prevention, outreach, screening techniques, intervention and referral, and crisis counseling. (Not open to students with credit in Human Services/Sociology 41.) (A, CSU)

**42 INTRODUCTION TO ALCOHOL AND DRUG  
COUNSELING****3 units, 3 lecture hours**

ADVISORY: English 1A.

The history of alcohol and other mood changing drugs in the U.S.; myths and stereotypes of alcohol use; socio-cultural factors that contribute to the use of drugs; patterns and progression of alcoholism; and the dynamics of treatment. (A, CSU)

**43 ALCOHOL AND DRUG ABUSE  
COUNSELING: CASE MANAGEMENT****3 units 3 lecture hours**

PREREQUISITE: Human Services 42. ADVISORY: English 1A.

Elementary techniques in the treatment of alcohol dependency for the individual and the family; student participation in counseling techniques in a group study experience. Bookkeeping, referral, consultation, and follow-up skills. (A, CSU)

**44 DRUG USE: PHYSICAL AND PSYCHOLOGICAL EFFECTS****3 units, 3 lecture hours**

ADVISORY: English 1A.

The physical and psychological aspects of drug use, including abuse and addiction, physical and psychological dependencies, physiological effects of commonly used drugs, and treatment and prevention. Not open to students with credit in Human Services 45. (A, CSU)

**60 INTRODUCTION TO CHILD WELFARE  
3 units, 3 lecture hours, (See also Child Development 60)**

ADVISORY: English 1A.

Introduction to the child welfare system. Exploration of the goals of child welfare including safety, a permanent family and well-being of every child. Emphasis on the practice of preventing, remedying, or ameliorating child maltreatment. (A, CSU)

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**HUMANITIES (HUMAN)**

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**10 CLASSICAL HUMANITIES****3 units, 3 lecture hours**

PREREQUISITE: Eligibility for English 1A.

An integrated study of the art, music, literature, philosophy, and drama of human civilization from the Greeks through the Renaissance. (A, CSU-GE, UC, I)

**11 MODERN HUMANITIES****3 units, 3 lecture hours**

PREREQUISITE: Eligibility for English 1A.

An integrated study of the art, music, literature, philosophy, and drama of the human civilization from the seventeenth century to the present. (A, CSU-GE, UC, I)

**42 CLASSICAL MYTHS****3 units, 3 lecture hours, (See also English 42)**

PREREQUISITE: English 1A or equivalent.

Reading and critical analysis of basic mythic themes in literature, film, and the visual arts. The origin of myths in ritual, their development in western civilization, and their ultimate form and continued presence in the arts. (A, CSU-GE, UC, I)

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**INDIVIDUAL STUDY**

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**49 (COURSE TITLE TO BE SELECTED)****1-3 units, minimum of 54 hours required per unit**

PREREQUISITE: To be determined by the faculty.

Creative or research project leading to a paper, report, construction, composition or other product. An exploration of a subject not normally covered in a regular course. The course name, title and content are to be identified by the instructor after consultation with the student. A course application form must be completed by the student and approved by the instructor and the division dean of instruction. (A, CSU, UC approved as variable topics; evaluation completed by individual campuses after admission.)

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**INDUSTRIAL EDUCATION**

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SEE APPLIED TECHNOLOGY (AT)

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**INDUSTRIAL TRAINING, CTC (ITCTC)**

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**371 WAREHOUSE & DISTRIBUTION CAREERS****2 lecture hours, 3 lab hours, (Repeats = 3), (Open Entry/Open Exit), (Formerly Industrial Training, VTC 71)**

COREQUISITE: Industrial Training CTC 372.

Forklift and electric pallet jack safety and operation skills necessary for employment, inventory and warehouse procedures utilizing computer based program resulting in logistics certification, basic and applied mathematics, basic computer, reading and writing practice, warehouse equipment like strapping and manual pallet jack.

**372 WAREHOUSE & DISTRIBUTION CAREERS****2 lecture hours, 3 lab hours, (Repeats = 3), (Open Entry/Open Exit)**

COREQUISITE: Industrial Training, CTC 371.

Provides forklift operation and safety skills necessary for employment in warehouse environment. Warehouse inventory and processing procedures utilizing computer based related programs, mathematics and proper packaging techniques to industry standards.

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**INFORMATION SYSTEMS**SEE COMPUTER INFORMATION TECHNOLOGY (CIT)

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**JAPANESE**SEE FOREIGN LANGUAGE

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**JOURNALISM (JOURN)**

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**1 INTRODUCTION TO MASS COMMUNICATION****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

A survey of major mass mediums and their influence on the artistic and cultural expression of contemporary society. From books through the internet, and from pop culture to advertising, public relations, media law and ethics, a close examination of the historical and technological developments that have shaped the structures and practices of mass media as well as emerging trends in mass communication, audiences, and technologies. Students learn analytical skills to help become critical consumers/developers of media. (C-ID JOUR 100) (A, CSU-GE, UC, I)

**2 INTERPRETING CURRENT EVENTS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Discussion and analysis of important national and international events. Readings from newspapers, magazines and on-line news sources on interpreting and evaluating information in light of journalistic objectivity, propaganda, government censorship and the influence of various groups on news gathering. (A, CSU)

**3 NEWSWRITING****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

News information gathering and writing for print media. Includes the basics of news writing, methods and practices, interviewing, feature writing, and emphasis on writing against deadlines. Ethical, policy and legal questions confronting reporters, their editors and publishers. (C-ID JOUR 110) (A, CSU)

**4 WRITING FOR THE COLLEGE NEWSPAPER****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended and Journalism 3 (can be concurrent) or equivalent.

Writing articles for the school newspaper; writing for other journalism publications on a regular schedule throughout the semester; editing articles for the publications; gathering information from a variety of sources; synthesizing a story; preparing information for dissemination; handling ethical and legal aspects of communication. (C-ID JOUR 130) (A, CSU)

**6 MAGAZINE PRODUCTION****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended. For photographers, demonstrated ability to use a camera. For artists and designers, demonstrated ability in the field of art or graphics.

Introduction to magazine production with emphasis on developing, researching, interviewing and writing non-fiction articles. Includes complete presentation of stories, photos, design and layout. Students will edit and publish a magazine that can be adaptable for on-line publication. (A, CSU)

**11A BEGINNING MEDIA WRITING PRACTICUM****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Journalism 3.

Students practice and refine beginning newsgathering, reporting, persuasion and writing skills by working as staff members of the college newspaper and other print and online student publications; focus of study is on basic news, feature and opinion stories. (C-ID JOUR 130) (A, CSU)

**11B INTERMEDIATE MEDIA WRITING PRACTICUM****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Journalism 11A.

Students practice and refine intermediate newsgathering, reporting, persuasion and writing skills by working as staff members of the college newspaper and other print and online student publications. Focus of study is on specialized and in-depth news, feature and opinion stories. (C-ID JOUR 131) (A, CSU)

**11C ADVANCED MEDIA WRITING PRACTICUM****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Journalism 11B.

Students practice and refine advanced newsgathering, reporting, persuasion and writing skills by working as staff members of the college newspaper and other print and online student publications. Focus of study is on investigative and enterprise news stories and series, and related opinion articles. (C-ID JOUR 130 and JOUR 131) (A, CSU)

**11D EDITORIAL LEADERSHIP****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Journalism 11C or relevant experience as determined by the instructor.

Producing the Rampage, print and online version; leadership positions on The Rampage and TheRampageOnline.com; and specialized workshops. (C-ID JOUR 130 and JOUR 131) (A, CSU)

**12 ONLINE NEWSPAPER STAFF****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Journalism 3.

Production of online newspaper. Students will get practical experience in writing for an online publication, including multimedia, using digital photography, video and audio clips for story enhancement. The course prepares students for future print and electronic media work. (A, CSU)

**13 ADVANCED REPORTING AND WRITING****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Journalism 3.

Advanced reporting and news gathering techniques; emphasis on interviewing and research skills; investigative, special assignment and online reporting. (C-ID JOUR 210) (A, CSU)

**14 MULTIMEDIA REPORTING****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Journalism 3.

Integrate print and broadcast techniques to produce multimedia pieces for the web and other electronic media. Multimedia storytelling incorporating writing, digital photography, video, audio and automation. (C-ID JOUR 120) (A, CSU)

**15 BASIC EDITING FOR JOURNALISTS****3 units, 3 lecture hours**

ADVISORY: Journalism 3 or concurrent enrollment, and eligibility for English 1A recommended.

Application of basic language skills to media writing and editing; covers news values and basic news writing and editing; grammar, word use, sentence construction, spelling, punctuation, and principles of effective writing as it applies to journalistic proofreading and copy editing; emphasizes the set of rules for understanding how language works; and communicating clearly, concisely, and coherently. (A, CSU)

**16 RACE, GENDER AND THE MEDIA****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

A critical examination of the role of media in enabling, facilitating, or challenging the social construction of race and gender in our society. Using a variety of entertainment and news content in print, electronic, and the internet, an appreciation and evaluation of how the media influence everyday notion of race and gender and review the historical roles news and entertainment media have played in creating awareness about the experiences of women and ethnic minorities. (A, CSU-GE, UC, I)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL****1-8 units**

COREQUISITE: Journalism 11A, 11B, 11C, 11D or 14. Fall and Spring Semesters: Must be enrolled in at least one other course, including occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to journalism. Collaborative learning objectives established specific to journalism. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

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**LABORATORY ASSISTANT**

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**159 LABORATORY ASSISTANT****1 unit, 3 lab hours**

PREREQUISITE: Verification of eligibility by instructor and division dean.

Opportunity to work independently with and assist instructor in subject area. Student must register no later than the third week of a regular semester. (A)

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**LEARNING ASSISTANCE (LA)**

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**1 TUTOR TRAINING****1 unit, 1 lecture hour, 1 lab hour**

ADVISORY: Eligibility for English 1A recommended.

Concepts, principles, and methods of one-on-one and group tutoring with supervised practice. Designed for tutors working in college tutorial, math, and English learning centers, and for students employed or desiring future employment as educational or instructional aides or as teachers. (A, CSU)

**2A TUTOR TRAINING: LEVEL I**

**1 unit, 2 lecture hours, 2 lab hours,  
(9 weeks)**

ADVISORY: Eligibility for English 1A recommended.

Introductory course for writing and reading tutors. Designed to develop peer-tutoring skills for one-on-one sessions with tutees from varying educational backgrounds. Overview of tutorial theory and effective practices. Discussion of meta-cognitive activities for tutoring reading and writing. This course is open for writing tutors working in a tutorial environment. (A, CSU)

**2B TUTOR TRAINING: LEVEL II**

**1 unit, 2 lecture hours, 2 lab hours, (9  
weeks)**

PREREQUISITE: Learning Assistance 2A.

This course provides instruction and guided practice in group tutoring dynamics and social and emotional intelligence with an emphasis on developmental reading and writing and English for Multilingual Students (EMLS). (A, CSU)

**3 METHODS AND APPLICATION IN GROUP INSTRUCTION**

**1 unit, 2 lecture hours, (9 weeks)**

PREREQUISITE: None.

This class explores theories and methods of learning and their effective application. It will specifically address learning through a multidisciplinary lens while promoting group interaction and engagement. All students hired as Extending the Class (ETC) Leaders for the Division of Library and Student Learning Support Services must complete this class during their first year of providing support. Enrolled students will receive instruction regarding the design, implementation, and evaluation of a collaborative and engaged Supplemental Instruction (SI) learning environment. Through experiential learning, ETC Leaders will have the opportunity to develop and strengthen their interpersonal, communication and critical thinking skills in preparation of furthering their academic and/or professional careers. (A, CSU)

**360 HIGH SCHOOL EQUIVALENCY PREPARATION**

**3 lab hours, (Repeats = 99), (Pass/No Pass),  
(Open Entry/Open Exit)**

PREREQUISITE: None.

The High School Equivalency (HSE) Preparation course equips individuals with the skills and knowledge base necessary to pass the HSE exam. Students review the five examination content areas (language arts-reading and writing, mathematics, social sciences, and science) with particular emphasis on writing and math. Instructors will assess individual skill levels to help the student focus on tutoring weaknesses into strengths.

**LIBRARY SKILLS (LIBSKL)****1 INFORMATION COMPETENCY/RESEARCH SKILLS**

**1.5 units, 1.5 lecture hours**

PREREQUISITE: None.

Introduction to research skills for college students, including basic concepts of information, its organization, location, evaluation, and use. (A, CSU)

**LIBRARY TECHNOLOGY (LITEC)****51 INTRODUCTION TO LIBRARY SERVICE**

**3 units, 3 lecture hours**

PREREQUISITE: None.

Explores the general organization and governance of various types of libraries, their mission, roles and materials; library service from past to present and its role in society; basic duties, ethics and values of the library paraprofessional. Foundation course for the program leading to a certificate in library technology. (A, CSU)

**52A ORGANIZATION OF INFORMATION**

**3 units, 3 lecture hours, (Formerly Library  
Technology 52)**

PREREQUISITE: None.

Cataloging of materials using Library of Congress and Dewey Decimal Classification systems. (A, CSU)

**52B COLLECTION MANAGEMENT**

**1 unit, 1 lecture hour**

PREREQUISITE: None.

Library technical services, acquisition and processing of materials, collection maintenance and materials repair. (A, CSU)

**54 LITERATURE AND SERVICES FOR YOUTH**

**3 units, 3 lecture hours**

PREREQUISITE: None.

Library services to children and young adults in the areas of literature, collection development, information services, programming, reader's advisory, reference and information literacy. (A, CSU)

**55 LIBRARY PUBLIC SERVICE**

**3 units, 3 lecture hours**

PREREQUISITE: None.

Library services offered to the public, including readers' advisory, interlibrary loan, and the circulation of materials. (A, CSU)



**56 INFORMATION TECHNOLOGY****3 units, 3 lecture hours**

PREREQUISITE: None.

Use and management of computers, computer networks, non-print materials and emerging technologies used in libraries. Educating the users in their use. (A, CSU)

**57 REFERENCE: PRINT AND ONLINE SOURCES****3 units, 3 lecture hours**

PREREQUISITE: None.

Library reference services, research methodologies, standard reference sources, utilization of print, non-print and electronic format sources; reference interview techniques and style; collection development issues related to library reference services. (A, CSU)

**61 INFORMATION AND COMPUTER LITERACY  
3 units, 3 lecture hours, (Formerly Library Skills 2)**

PREREQUISITE: None.

In-depth research skills for college students, including the concept of information, its organization, location, evaluation, and use. General computer/technology concepts, email, and navigating the World Wide Web. (A, CSU)

**62 MEDICAL RESOURCES AND LIBRARIES****3 units, 3 lecture hours**

PREREQUISITE: None.

Supports reference, communications, teamwork, foundations and technology competencies for library support staff. Surveys needs and uses of medical information for personal, corporate or academic use from print and online sources. (A, CSU)

**63 LEGAL RESOURCES AND LIBRARIES****3 units, 3 lecture hours**

PREREQUISITE: None.

Use of legal research tools, especially printed and online resources. Provides an overview of the American legal system, the different areas of law, and the different sources of law. (A, CSU)

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**LINGUISTICS (LING)**

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**10 INTRODUCTION TO LANGUAGE****3 units, 3 lecture hours**

PREREQUISITE: None

Examination of the nature of language, its historical development, its structural elements, and the stages of language acquisition. Emphasis on systematic linguistic description of language knowledge and usage. (A, CSU-GE, UC, I)

**10H HONORS INTRODUCTION TO LANGUAGE****3 units, 3 lecture hours**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Examination of the nature of language, its historical development, its structural elements, the stages of language acquisition, and their applications in the world. Emphasis on systematic linguistic analysis of language systems and usage. Honors sections will cover additional subject matter such as cognitive linguistics, forensic linguistics, and computational linguistics. (A, CSU-GE, UC, I)

**11 INTRODUCTION TO LANGUAGE FOR EDUCATORS****3 units, 3 lecture hours**

PREREQUISITE: None

Examination of the nature, history, development and acquisition of language and its structural elements. Emphasis on how language is used and learned. Contrastive analysis of English with other commonly spoken languages of the area. Special focus on the relationship between linguistic structure and the development of reading and writing. (A, CSU)

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**MAINTENANCE MECHANIC (MMCTC)**

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**370 FUNDAMENTALS OF WELDING AND MACHINE SHOP****5.55 lecture hours, 11.11 lab hours, (Repeats = 3), (Formerly MMCTC 70)**

PREREQUISITE: None.

Basic gas, arc, MIG, TIG (mild steel only). Precision measurement, hand tools, engine lathe, drilling, milling.

**371 FUNDAMENTALS OF HYDRAULICS AND PNEUMATICS****5.55 lecture hours, 11.11 lab hours, (Repeats = 3), (Formerly MMVTC 71)**

PREREQUISITE: None.

Hydraulic and pneumatic principles, pumps, actuators, valves, schematics, operating systems.

**372 ELECTRICAL FUNDAMENTALS****5.55 lecture hours, 11.11 lab hours, (Repeats = 3), (Open Entry/Open Exit), (Formerly MMVTC 72)**

PREREQUISITE: None.

Electrical principles, AC/DC circuits, motors, motor starters, relays, wiring, troubleshooting, schematic reading, test instruments, variable speed drives

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**MANUFACTURING MECHANIC (MFGMCTC)**


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**351 INTRODUCTION TO MANUFACTURING****0.5 lecture hour, (Pass/No Pass)**

PREREQUISITE: None.

Career in manufacturing, local job market, pay scales; basic mechanical skills required throughout the industrial areas; safety and safe working environment will be stressed.

**352A TRADE MATHEMATICS****1 lecture hour, (Pass/No Pass)**

PREREQUISITE: None.

Industrial technology and trade-related math. The use of metric system of weights and measures, arithmetic application of integers and fractions, along with ruler and caliper readings commonly used in manufacturing trades.

**352B PROGRAMMABLE CONTROLLERS****0.25 lecture hour, 0.75 lab hour, (Pass/No Pass)**

PREREQUISITE: None.

An introduction to the equipment and peripheral devices used to interface with industrial controlling devices.

**352C JOB PREPARATION****0.25 lecture hour, 0.75 lab hour, (Pass/No Pass)**

PREREQUISITE: None.

Preparing resumes, portfolios, and improving employment-seeking skills.

**352D TECHNICAL REPORT WRITING****0.25 lecture hour, 0.75 lab hour, (Pass/No Pass)**

PREREQUISITE: None.

Identify and write various manufacturing types of reports; analyze data, and record data that are associated with production work.

**353A FLUID POWER FUNDAMENTALS****0.5 lecture hour, (Pass/No Pass)**

PREREQUISITE: None.

Fundamentals of fluid power; physics principles pertaining to fluid power; various differences in hydraulics and pneumatics; characteristics of liquids and gases.

**353B PNEUMATIC FUNDAMENTALS****0.25 lecture hour, 0.75 lab hour, (Pass/No Pass)**

PREREQUISITE: None.

Theory and application in the operation, service, and function of pneumatic systems including design and application of systems in industrial environments.

**353C HYDRAULIC FUNDAMENTALS****0.25 lecture hour, 0.75 lab hour, (Pass/No Pass)**

PREREQUISITE: None.

Theory and application in the operation, service, and function of hydraulic systems including design and application of systems in industrial environments.

**354A POWER TRANSMISSION****0.5 lecture hour, (Pass/No Pass)**

PREREQUISITE: None.

Fundamental concepts of power transmission. Application of gears, belts, chains, and pulleys will be discussed.

**354B WELDING FUNDAMENTALS****0.25 lecture hour, 2.25 lab hours, (Pass/No Pass)**

PREREQUISITE: None.

Basic metallurgy and properties of metals, oxyacetylene welding and cutting processes, arc welding, and safety within the work environment.

**354C ELECTRICAL FUNDAMENTALS****0.25 lecture hours, 2.25 lab hours, (Pass/No Pass)**

PREREQUISITE: None.

Fundamentals of electrical theory, AC circuitry, as well as an instruction to motor control.

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**MARKETING (MKTG)**


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**1 RETAIL SALES AND CUSTOMER SERVICE FUNDAMENTALS****1 unit, 1 lecture hour**

PREREQUISITE: None.

Retail sales and customer service fundamentals for entry-level and incumbent workers. (A, CSU)

**10 PRINCIPLES OF MARKETING****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Utilizing both traditional and contemporary approaches, this course explores marketing's role in creating profitable exchanges including the examination, analysis, reasoning, advocacy, and critique of planning, product development, pricing, distribution, and promotion. Also researches and evaluates how consumer behavior, market research, retailing, and current technologies are used to achieve organizational goals. (A, CSU)

**11 SELLING AND SALES MANAGEMENT****3 units, 3 lecture hours, (Spring only)**

ADVISORY: Eligibility for English 1A recommended.

Fundamentals of personal selling including the steps in the sales process; communicating and relationship building; creating value; sales management; making sales presentations and negotiating; buyer motivation/resistance; organizing a territory, and time management. Career opportunities in the sales industry and selling occupations. (A, CSU)

**12 ADVERTISING AND PROMOTION****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Explores the elements of advertising and sales promotion from an integrated marketing communications perspective. Topics include consumer and market analysis, identification of target market, creative strategy, media selection, campaign evaluation, and career opportunities. (A, CSU)

**14 RETAILING****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Explores the basic elements of retailing with an application of marketing concepts. Topics include retail formats, retail strategies, target market analysis, customer relationship management, personnel management, merchandise selection, current technologies, and career opportunities. (A, CSU)

**17 VISUAL MERCHANDISING****3 units, 3 lecture hours, (See also Fashion Merchandising 28)**

ADVISORY: Eligibility for English 1A and Mathematics 201 recommended.

Modern display techniques, equipment, materials, and analysis of current display methods as they apply to creating a store's image. Laboratory exercises to include planning, executing, and evaluating a variety of displays including signage, cases, windows, and banners. (A, CSU)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL****1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors. ADVISORY: Eligibility for English 1A recommended.

Supervised employment extending the classroom based on occupational learning related to marketing. Collaborative learning objectives established specific to marketing. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**21 DIGITAL MARKETING****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Examines digital marketing as a strategic business tool. Explores the roles digital commerce and social media play in an integrated marketing campaign. Builds a foundational knowledge of how companies use social media platforms, metrics, search engine optimization, and research to improve brand awareness, customer service, product development, and quality control. (A, CSU)

**22 INTRODUCTION TO FASHION MERCHANDISING****3 units, 3 lecture hours, (See also Fashion Merchandising 27)**

ADVISORY: Eligibility for English 1A recommended.

Provides students an introduction to the world of fashion merchandising. Includes the history/global perspectives, uniqueness, and opportunities in fashion. Also presents fundamentals of fashion, basic fashion terminology, and an overview of textiles and apparel. (A, CSU)

**301 RETAIL SALES AND CUSTOMER SERVICE FUNDAMENTALS****1 lecture hour**

PREREQUISITE: None.

Retail sales and customer service fundamentals for entry-level and incumbent workers.

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**MATHEMATICS (MATH)**


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**3A COLLEGE ALGEBRA****4 units, 4 lecture hours**

PREREQUISITE: Mathematics 103 or placement by multiple measures.

This is a college level course in algebra for majors in business, science, technology, engineering, and mathematics. Students will study polynomial, rational, radical, exponential, absolute value, and logarithmic functions; systems of equations; theory of polynomial equations; and analytic geometry. (A, CSU-GE, UC, I)

**4A TRIGONOMETRY****4 units, 4 lecture hours, (Formerly Mathematics 4)**

PREREQUISITE: Mathematics 103 or placement by multiple measures. ADVISORY: Mathematics 102.

Topics include angles, trigonometric and inverse trigonometric functions, right and oblique triangles, graphs, identities, trigonometric equations, vectors, polar coordinates, DeMoivre's Theorem, and applications. (C-ID MATH 851) (A, CSU-GE)

**4B PRE-CALCULUS****4 units, 4 lecture hours**

PREREQUISITE: Mathematics 4A or placement by multiple measures.

Topics include equations and inequalities; polynomial, rational, exponential, logarithmic, trigonometric functions; graphing, analytic geometry, and conic sections; vectors; matrices; systems of equations; the binomial theorem, sequences, and series. (C-ID MATH 151) (A, CSU-GE, UC, I)

**5A MATHEMATICAL ANALYSIS I****5 units, 5 lecture hours**

PREREQUISITE: Mathematics 4B or 3A and 4A or placement by multiple measures.

An introduction to differential and integral calculus, analytical geometry, differentiation and integration of functions, limits, continuity, the Fundamental Theorem of Calculus, and applications of differentiation. (C-ID MATH 210 and C-ID MATH 900S = MATH 5A + MATH 5B) (A, CSU-GE, UC, I)

**5B MATHEMATICAL ANALYSIS II****4 units, 4 lecture hours**

PREREQUISITE: Mathematics 5A or placement by multiple measures.

Topics include applications and techniques of integration including logarithmic, exponential, trigonometric, and transcendental functions; conic sections; infinite series; differential equations; approximations. (C-ID MATH 220 and C-ID MATH 900S = MATH 5A + MATH 5B) (A, CSU-GE, UC, I)

**6 MATHEMATICAL ANALYSIS III****4 units, 4 lecture hours**

PREREQUISITE: Mathematics 5B or placement by multiple measures.

Topics include solid analytic geometry; partial differentiation; integral calculus of multivariable functions; two and three dimensional vectors; vector valued functions; topics in vector calculus including Green's, Divergence, and Stokes' Theorems. (C-ID MATH 230) (A, CSU-GE, UC, I)

**7 INTRODUCTION TO DIFFERENTIAL EQUATIONS****4 units, 4 lecture hours**

PREREQUISITE: Mathematics 6 or placement by multiple measures.

Introduction to ordinary differential equations; solutions by power series, phase planes, and Laplace Transforms; linear algebra; Fourier Series; complex variables. (C-ID MATH 240) (A, CSU, UC)

**10A STRUCTURE AND CONCEPTS IN MATHEMATICS I****3 units, 3 lecture hours**

PREREQUISITE: Mathematics 103 or placement by multiple measures.

Students will develop quantitative reasoning through an in-depth study of topics including real number systems and subsystems. The emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. The course is designed for elementary credential candidates. (C-ID MATH 120) (A, CSU-GE, UC, I)

**10B STRUCTURE AND CONCEPTS IN MATHEMATICS II****3 units, 3 lecture hours**

PREREQUISITE: Mathematics 10A. ADVISORY: Mathematics 102.

Topics include probability, statistics, geometry, measurement, motion geometry, and tessellations. The course is designed for elementary credential candidates. (A, CSU-GE, UC, I)

**11 ELEMENTARY STATISTICS****4 units, 4 lecture hours**

PREREQUISITE: Mathematics 103 or placement by multiple measures.

Topics include descriptive measures, probability and sampling distributions, central limit theorem, one and two sample hypothesis tests, analysis of variance, predictive techniques, correlation and regression. (C-ID MATH 110) (A, CSU-GE, UC, I)

**11H HONORS ELEMENTARY STATISTICS****4 units, 4 lecture hours**

PREREQUISITE: Mathematics 103 or placement by multiple measures. ADVISORY: Meet the qualifications for consideration into the Honors Program recommended. See Honors Program listing in the college catalog.

Topics include descriptive measures, probability, probability distributions, sampling distributions, central limit theorem, one and two sample hypothesis tests, estimation, correlation, regression and analysis of variance. Honors work challenges students to be more analytical through expanded assignments. (C-ID MATH 110) (A, CSU-GE, UC, I)

**17 DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA****5 units, 5 lecture hours**

PREREQUISITE: Mathematics 6 or placement by multiple measures.

Topics include first-order ordinary differential equations, including separable, linear, homogeneous of degree zero, Bernoulli and exact with applications and numerical methods. Students will also study solutions to higher order differential equations using undetermined coefficients, variation of parameters, and power series, with applications; solutions to linear and non-linear systems of differential equations, including numerical solutions; matrix algebra, solutions of linear systems of equations, and determinants; vector spaces, linear independence, basis and dimension, subspace and inner product space, including the Gram-Schmidt procedure; as well as linear transformations, kernel and range, eigenvalues, eigenvectors, diagonalization and symmetric matrices. (A, CSU-GE, UC, I)

**21 FINITE MATHEMATICS****3 units, 3 lecture hours, (Formerly Mathematics 31)**

PREREQUISITE: Mathematics 103 or placement by multiple measures.

Topics include applications of linear, exponential, and logarithmic functions, matrix operations, and inverse matrices; linear programming techniques, mathematics of finance, probability, and counting theory; as well as limits, rates of change, and derivatives. (C-ID MATH 130) (A, CSU-GE, UC, I)

**26 ELEMENTARY LINEAR ALGEBRA****3 units, 3 lecture hours**

PREREQUISITE: Mathematics 5A or placement by multiple measures.

Topics include matrices and linear transformations, vector spaces, determinants, eigenvalues and eigenvectors. (C-ID MATH 250) (A, CSU-GE, UC, I)

**42 STATISTICS FOR THE BEHAVIORAL SCIENCES****4 units, 4 lecture hours, (See also Psychology 42)**

PREREQUISITE: Mathematics 103 or placement by multiple measures.

Topics include descriptive statistics, sampling, hypothesis testing, estimation, selected non-parametric techniques, ANOVA, and regression, with applications from psychology, biology, and social sciences. This course is designed for psychology majors and UC transfers. (C-ID MATH 110) (A, CSU-GE, UC, I)

**45 CONTEMPORARY MATHEMATICS****3 units, 3 lecture hours**

PREREQUISITE: Mathematics 103 or placement by multiple measures.

An introduction to mathematical problem solving: statistics, social choice, and management science. (A, CSU-GE, UC)

**102 PLANE GEOMETRY****3 units, 3 lecture hours, (Formerly Mathematics 2)**

PREREQUISITE: None.

Students will study angles; parallel lines; congruent and similar triangles; geometric constructions; right triangle trigonometry; application of formulas for perimeter, area, and volume of geometric figures; and inductive and deductive reasoning. (A)

**103 FOUNDATIONS OF ALGEBRA****4 units, 4 lecture hours, (Formerly Mathematics 3)**

PREREQUISITE: None.

Topics include polynomial, rational, and algebraic expressions and equations; linear, quadratic, exponential, and logarithmic functions; systems of equations and inequalities; radicals; graphing functions and relations. (A)

**201 ELEMENTARY ALGEBRA****5 units, 5 lecture hours, (Formerly Mathematics 1 and 101)**

PREREQUISITE: None.

Topics include signed numbers, algebraic expressions, linear equations, exponents, polynomials, factoring, rational expressions and equations, graphing, inequalities, systems of equations, radicals, quadratic equations, and applications.

**203S SUPPORT FOR COLLEGE ALGEBRA****2 units, 2 lecture hours, (Pass/No Pass)**

PREREQUISITE: Placement by multiple measures. COREQUISITE: Mathematics 3A.

A review of the core prerequisite skills, competencies, and concepts needed in college algebra. Intended for majors in business, science, technology, engineering, and mathematics who are concurrently enrolled in MATH 3A, College Algebra. Review topics include: operations with integers, linear equations and inequalities, properties of exponents and radicals, factoring polynomials, and identifying efficient strategies for solving and graphing equations.

**211S SUPPORT FOR STATISTICS****2 units, 2 lecture hours, (Pass/No Pass)**

PREREQUISITE: Placement by multiple measures. COREQUISITE: Mathematics 11 or 42.

A review of the core prerequisite skills, competencies, and concepts needed in statistics. Intended for students who are concurrently enrolled in Elementary Statistics or Statistics for Behavioral Sciences. Topics include concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. Concepts are taught through the context of descriptive data analysis.

**277 ARITHMETIC FOR THE LEARNING DISABLED****2 units, 6 lab hours, (Pass/No Pass), (Formerly Mathematics 77)**

PREREQUISITE: Students must have a diagnosed verifiable disability.

Review of the mechanics of arithmetic involving computing with whole numbers, fractions, decimals, and percents. Includes word problems and applications of arithmetic. Designed for students with severe disabilities and/or learning disabilities.

**MEDICAL ASSISTING (MA)****1 LEGAL AND ETHICAL CONCEPTS****2 units, 2 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Medical ethics, jurisprudence, and professional relations in the medical office setting as applied to the medical assistant profession and specialty fields. Assists the students in understanding the medical assistant role as an integral part of the medical profession. (A, CSU)

**2 PHARMACOLOGY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended. Knowledge of basic arithmetic. Biology 5 or 55.

Mathematical concepts needed to calculate a patient's medication dosage correctly combined with a detailed explanation of topics essential to understanding drug sources, legislation relating to drugs, drug reference and classification, actions and administration. (A, CSU)

**4 OFFICE LABORATORY PROCEDURES****3 units, 2.5 lecture hours, 2 lab hours**

ADVISORY: Eligibility for English 1A recommended. Knowledge of basic arithmetic. Biology 5 or 55.

Preparation of patient specimens for laboratory study and/or transportation. Specimen screening analysis techniques, recording of findings, regulations, and safety hazards. Precautionary measures relevant to specimen handling, personal and patient safety. (A, CSU)

**5 DIAGNOSTIC AND THERAPEUTIC PROCEDURES****3 units, 2.5 lecture hours, 2 lab hours**

PREREQUISITE: Medical Assisting 4. ADVISORY: Eligibility for English 1A recommended. Knowledge of basic arithmetic. Biology 5 or 55.

Fundamentals of patient preparation for diagnostic studies. Techniques and recording of diagnostic and therapeutic procedures commonly performed in medical offices, safety standards and hazards, precautionary measures. (A, CSU)

**6A CLINICAL TRAINING****3 units, 3 lecture hours, 1 lab hour, (Formerly Medical Assisting 60A)**

ADVISORY: Eligibility for English 1A recommended. Biology 5 or 55.

Topics pertinent to medical assisting: infection control, medical asepsis, interview and communication techniques, vital signs, patient education, and assisting in physical exams. (A, CSU)

**6B ADVANCED TRAINING**

**3 units, 3 lecture hours, 1 lab hour,  
(Formerly Medical Assisting 60B)**

PREREQUISITE: Medical Assisting 6A. ADVISORY: Eligibility for English 1A recommended. Biology 5 or 55.

Medical assisting procedures in the specialty office and handling of medical emergencies within the scope of practice of a Medical Assistant. (A, CSU)

**19 WORK EXPERIENCE (COOPERATIVE),  
OCCUPATIONAL**

**1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to medical assisting. Collaborative learning objectives established specific to medical assisting. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

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**MEDICAL RECORD TECHNOLOGY**

SEE HEALTH INFORMATION TECHNOLOGY

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**MILITARY SCIENCE (MILSC)**

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**1 INTRODUCTION TO THE U.S. ARMY AND  
CRITICAL THINKING**

**1 unit, 1 lecture hour**

ADVISORY: Eligibility for English 1A recommended.

An introduction to the Army and critical thinking. Introduces Cadets to the Army and the Profession of Arms. Examines the Army Profession and what it means to be a professional in the U.S. Army. Develops basic knowledge and comprehension of the Army Leadership Requirements Model and a complete understanding of the Reserve Officers' Training Corps (ROTC), its purpose, and the advantages for the student. Cadets also learn how resiliency and fitness support their development as Army Leaders. (A, CSU, UC)

**2 FOUNDATIONS OF AGILE AND ADAPTIVE  
LEADERSHIP**

**1 unit, 1 lecture hour**

ADVISORY: Eligibility for English 1A recommended.

Introduces Cadets to the personal challenges and competencies that are critical for effective leadership. Personal development of life skills such as critical thinking, time management, goal setting, and communication. Cadets learn the basics of the communications process and the importance for leaders to develop the essential skills to effectively communicate in the Army. (A, CSU, UC)

**11 LEADERSHIP AND DECISION-MAKING**

**2 units, 2 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Leadership and decision-making. Application of Troop Leading Procedures (TLP) and Innovative Solutions to Problems in concert with the Principles of Mission Command. The Army Profession is also stressed through leadership forums and a leadership self-assessment. (A, CSU, UC)

**12 ARMY DOCTRINE AND TEAM  
DEVELOPMENT**

**2 units, 2 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Army Doctrine and team development. Beginning understanding and demonstration of competencies related to Army doctrine. Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and the philosophy of military service are also stressed. The ability to lead and follow is also covered through Team Building exercises in small units up to squad level. (A, CSU, UC)

**50 FRESHMAN LEADERSHIP LABORATORY I**

**1 unit, 3 lab hours, (Formerly Military  
Science 50A)**

ADVISORY: Eligibility for English 1A recommended.

Basic fundamentals of becoming an army officer and adapting to military life. Students will learn and embrace the Army values and warrior ethos while being introduced to the concept of professionalism within the U.S. Army. (A, CSU, UC)

**55 FRESHMAN LEADERSHIP LAB II**

**1 unit, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Hands-on leadership experience via application of field skills and tactical maneuvers in small units of up to platoon size (approximately thirty personnel). Focus is on development of creative problem-solving and resilience while learning individual and small-unit tactical drills. (A, CSU, UC)

**60 SOPHOMORE LEADERSHIP LABORATORY I**  
**1 unit, 3 lab hours, (Formerly Military Science 50B)**

ADVISORY: Eligibility for English 1A recommended.

Advanced knowledge and application of field skills and tactical maneuvers of squad sized elements. Focus is on team building, military communication, and virtual battle system. (A, CSU, UC)

**65 SOPHOMORE LEADERSHIP LAB II**  
**1 unit, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Advanced knowledge and application of field skills and tactical maneuvers of platoon sized elements. Upon implementation, students will be equipped with the knowledge and foresight to successfully complete the cadet summer training. (A, CSU, UC)

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## MUSIC (MUS)

*For information concerning course requirements for the major, see page 168.*

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## THEORY

### 1A MUSIC THEORY I

**3 units, 3 lecture hours, (Fall only)**

COREQUISITE: Music 7A. ADVISORY: Music 3 or the ability to read music as determined by testing. Eligibility for English 1A recommended.

Writing and analysis; fundamentals of music. Designed for the music major. Introduction to the notation and primary elements of tonal music with regard to music from Western history and non-Western cultures: Examples from music literature will demonstrate staff notation in treble and bass clefs, rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; and diatonic chords. History and social context of the above concepts will be discussed. (C-ID MUS 120) (A, CSU, UC)

### 1AE MUSIC THEORY I-EXTRA

**3 units, 3 lecture hours, 1 lab hour**

COREQUISITE: Music 7A. ADVISORY: Music 3.

Course covers content of MUS 1A with extra lab time and guided practice. Appropriate for students desiring extra support due to no prior music experience. Writing and analysis; fundamentals of music. Designed for the music major. Introduction to the notation and primary elements of tonal music with regard to music from Western history and non-Western cultures: Examples from music literature will demonstrate staff notation in treble and bass clefs, rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; and diatonic chords. History and social context of the above concepts will be discussed. (C-ID MUS 120) (A, CSU, UC)

### 1B MUSIC THEORY II

**3 units, 3 lecture hours, (Spring only)**

PREREQUISITE: Music 1A. COREQUISITE: Music 7A. ADVISORY: Eligibility for English 1A recommended.

Writing and analysis; functional tonality, harmonization, diatonic and dominant seventh chords, and secondary function. Designed for the music major. (C-ID MUS 130) (A, CSU, UC)

### 2A MUSIC THEORY III

**3 units, 3 lecture hours, (Fall only)**

PREREQUISITE: Music 1B. COREQUISITE: Music 7C. ADVISORY: Eligibility for 1A recommended.

Writing and analysis; 2 voice counterpoint and fugue; chromatic harmony and forms of the 18th century; and reductive analysis. Emphasis on classical and early romantic periods. Designed for the music major. (C-ID MUS 140) (A, CSU, UC)

### 2B MUSIC THEORY IV

**3 units, 3 lecture hours, (Spring only)**

PREREQUISITE: Music 2A. COREQUISITE: Music 7D. ADVISORY: Eligibility for English 1A recommended.

Writing and analysis; late 19th and 20th century compositional practices including serial procedures and indeterminacy. Designed for the music major. (C-ID MUS 150) (A, CSU, UC)

### 3 MUSIC FUNDAMENTALS

**3 units, 3 lecture hours, 1 lab hour**

ADVISORY: Eligibility for English 1A recommended.

Fundamental theory of music: pitch, rhythm, meters, scales, keys, key signatures, intervals, rhythm, and scale dictation. Designed for the general student, the music major with limited music theory experience, the commercial music student, and the classroom teacher. (C-ID MUS 110) (A, CSU-GE, UC, I)

### 4 JAZZ THEORY

**3 units, 3 lecture hours, (Fall only)**

ADVISORY: Ability to read and notate music. Familiarity with basic scale and chord construction. Eligibility for English 1A recommended.

Chord, scale, and structural theory relating to the study, performance, and composition of jazz and contemporary music. (A, CSU, UC)

### 5 COMPUTER MUSIC PRODUCTION

**3 units, 2 lecture hours, 2 lab hours**

ADVISORY: Ability to read and play simple melodies on a keyboard. Basic computer skills. Eligibility for English 1A recommended.

Use of synthesizers, computers, sequencing and sound design software to compose, edit, and record music. Students will create and compose original music and personal arrangements in styles reflecting historical periods of popular music. (A, CSU, UC)



**5B MUSIC FOR FILM, TELEVISION, AND VIDEO GAMES****3 units, 2 lecture hours, 2 lab hours**

PREREQUISITE: Music 5.

Advanced computer music production techniques applicable to film, television and video games. Includes MIDI production with digital audio workstations, scoring methods, mixing and mastering for visual media. (A, CSU)

**6 JAZZ ARRANGING AND COMPOSITION****3 units, 3 lecture hours, (Spring only)**

ADVISORY: Ability to read and notate music in treble and bass clefs strongly recommended. Music 1A or 3 or 4 recommended. Eligibility for English 1A recommended.

Scoring and composing for jazz and popular vocal/instrumental combinations; emphasis on contemporary sound; projects will be performed. (A, CSU, UC)

**7A EAR TRAINING I****1 unit, 1 lecture hour, 1 lab hour**

COREQUISITE: Music 1A. ADVISORY: Eligibility for English 1A recommended.

Develops materials of Music Theory I through ear training, sight singing, analysis, and dictation. (C-ID MUS 125) (A, CSU, UC)

**7B EAR TRAINING: LEVEL II****1 unit, 1 lecture hour, 1 lab hour**

PREREQUISITE: Music 7A. COREQUISITE: Music 1B. ADVISORY: Eligibility for English 1A recommended.

Develops the materials of Music Theory II through ear training, sight singing, analysis, and dictation. (C-ID MUS 135) (A, CSU, UC)

**7C EAR TRAINING: LEVEL III****1 unit, 1 lecture hour, 1 lab hour**

PREREQUISITE: Music 7B. COREQUISITE: Music 2A. ADVISORY: Eligibility for English 1A recommended.

Develops the materials of Music Theory III through ear training, sight singing, analysis, and dictation. (C-ID MUS 145) (A, CSU, UC)

**7D EAR TRAINING: LEVEL IV****1 unit, 1 lecture hour, 1 lab hour**

PREREQUISITE: Music 7C. COREQUISITE: Music 2B. ADVISORY: Eligibility for English 1A recommended.

Develops materials of Music Theory IV through ear training, sight singing, analysis, and dictation. (C-ID MUS 155) (A, CSU, UC)

**8 AUDIO ENGINEERING****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: None.

A basic view of the digital recording studio as a sound storage, manipulation, reproduction and post-production facility. Designed for students in music, commercial music and electronic media. (C-ID CMUS 130X) (A, CSU, UC)

**8B AUDIO ENGINEERING II****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

An intermediate course in audio recording. It focuses audio engineering skills including preproduction, multi-track digital recording, large format mixing consoles, microphone placement, session procedures, outboard and digital effects, mixdown strategies, and basic mastering skills. (A, CSU)

**8C AUDIO ENGINEERING III****3 units, 2 lecture hours, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

An advanced course in audio recording. It focuses on audio engineering skills including post production, mixing, effects, mastering, content creation for broadcast, product manufacture, studio design, business basics, and conducting sessions in a 24 track recording environment (A, CSU)

**9 COMPOSITION****2 units, 2 lecture hours, (Spring only)**

ADVISORY: Music 2A or the equivalent as determined by testing and examination of student's music theory and composition work. Eligibility for English 1A recommended.

Writing short musical compositions; emphasis on 20th century practices; compositions performed in recital. (A, CSU, UC)

**93 SONGWRITING****3 units, 3 lecture hours**

PREREQUISITE: None.

The study of songwriting and concept development from initial idea to its realization in a musical style. Topics include: developing marketable ideas, analysis of target markets, characteristics of diverse musical styles, steps in adapting ideas to styles, song writing and arranging. (A, CSU)

**111 THE MUSIC BUSINESS****3 units, 3 lecture hours, (Formerly Music 11)**

ADVISORY: Eligibility for English 125 and 126 or English for Multi-Lingual Students 167W and 168R recommended.

Survey of topics of importance to the music industry professional: Management, copyright, publishing, contracts, promotion, and career development. (A)

**112 INTRODUCTION TO FINALE****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Ability to read music and basic computer skills recommended.

Use of Finale music notation software program for the creation of musical scores and parts. (A)

**150 PIANO TEACHING I****2 units, 2 lecture hours, 1 lab hour**

PREREQUISITE: Music 20.

Methods for teaching beginning and elementary piano students including a survey and comparison of piano books available for studio teaching. Practical suggestions for maintaining a private piano studio. (A)

**151 PIANO TEACHING II****2 units, 2 lecture hours, 1 lab hour**

PREREQUISITE: Music 150.

Pedagogical techniques for teaching intermediate level piano students. Performance of solo and ensemble piano literature. (A)

**HISTORY & APPRECIATION****12 MUSIC APPRECIATION****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Middle Ages through the 21st century. Concert attendance required. Designed for the general student. (C-ID MUS 100) (A, CSU-GE, UC, I)

**13 HISTORY OF MUSIC****3 units, 3 lecture hours, (Formerly Music 11)**

PREREQUISITE: Ability to read music and understand basic musical terminology. ADVISORY: Eligibility for English 1A recommended.

Music of western civilization from ancient to the present; emphasis on listening. Designed for the music major and the general student with a music background. Outside listening and concert attendance required. (A, CSU-GE, UC, I)

**15 WORLD MUSIC SURVEY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

An exploration of global cultures through music. Students discover the characteristics and social contexts of indigenous, historical, and popular music from cultures including African, American Indian, Central Asian, Latin American, Pacific Island, and South Asian/Indian. (A, CSU-GE, UC)

**16 JAZZ HISTORY AND APPRECIATION****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Vocal and instrumental jazz music from the 1890's through the present. Concert attendance required. Designed for the general student and commercial music student. (A, CSU-GE, UC, I)

**17 HISTORY OF ROCK****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

This course examines the music of the most important rock artists and groups from the 1950s through the present. The sociological, economic and cultural factors that shaped rock music, as well as the music's influence on popular culture, will also be covered. (A, CSU-GE, UC, I)

**APPLIED MUSIC****10A BEGINNING JAZZ IMPROVISATION****2 units, 1 lecture hour, 3 lab hours, (Formerly Music 10)**

ADVISORY: Ability to play an instrument at the intermediate/advanced level is recommended. Ability to read music recommended. Eligibility for English 1A recommended.

Study of the fundamentals of jazz improvisation: scales, modes, the blues, simple chord progressions, ear training, development of melodic ideas. (A, CSU, UC)

**10B INTERMEDIATE/ADVANCED JAZZ IMPROVISATION****2 units, 1 lecture hour, 3 lab hours**

PREREQUISITE: Music 10A or equivalent as determined by audition. ADVISORY: Ability to read music, and to play an instrument at the intermediate/advanced level is recommended. Prior jazz improvisation experience recommended.

Study of intermediate and advanced concepts of jazz improvisation: altered scales, chordal extensions, alterations, and substitutions, and more complex jazz compositions. (A, CSU, UC)

**18 BASIC CONDUCTING AND SCORE READING****2 units, 2 lecture hours, (Spring only)**

PREREQUISITE: Music 1A or 3 or the equivalent as determined by testing.

Fundamentals of conducting and score reading; standard patterns and baton technique; practice with recordings and large and small college ensembles. Designed for the music major and the commercial music student. (A, CSU, UC)

**20 BEGINNING PIANO: LEVEL I**  
**2 units, 1 lecture hour, 3 lab hours,**  
**(Formerly Music 20A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Fundamentals, theory, and terminology; elementary piano techniques, scales, and keyboard harmony; easy compositions drawn from the repertoire of varying historical periods of classical music and different world cultures. Designed for the general student and the classroom teacher. Not intended for students who have had previous piano instructions. (A, CSU, UC)

**21 BEGINNING PIANO: LEVEL II**  
**2 units, 1 lecture hour, 3 lab hours,**  
**(Formerly Music 20B)**  
 PREREQUISITE: Music 20 or the equivalent as determined by testing.  
 Progressively advancing solo and ensemble work. Baroque, classic, romantic, 20th century literature and world music literature as appropriate to the students development level. Artistic self-expression will be developed through fingering, harmonizing melodies, sight-reading, and duets. Designed for the general student and the classroom teacher. (A, CSU, UC)

**24 BEGINNING VOICE: LEVEL I**  
**2 units, 1.5 lecture hours, 2 lab hours,**  
**(Formerly Music 25A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Beginning concepts of tone production and vocal technique using folk, musical theatre and entry level art songs drawn from a variety of historical periods and cultures. Designed for the student with little or no formal voice training. (A, CSU, UC)

**25 BEGINNING VOICE: LEVEL II**  
**2 units, 1.5 lecture hours, 2 lab hours,**  
**(Formerly Music 25B)**  
 ADVISORY: Music 24 or the equivalent as determined by testing. Eligibility for English 1A recommended.  
 Progressively advancing solo and small ensemble work; Baroque, classic, romantic, 20th century literature and world music literature as appropriate to the students development level. Artistic self-expression will be developed through tone production and interpretation. Designed for both music majors and non music majors. (A, CSU, UC)

**27 BEGINNING GUITAR: LEVEL I**  
**2 units, 1.5 lecture hours, 2 lab hours,**  
**(Formerly Music 28A)**  
 PREREQUISITE: Own instrument required. ADVISORY: Eligibility for English 1A recommended.  
 Classical and popular guitar playing styles, techniques, rhythms, theory, and note reading. Music from a variety of historical periods and cultures. Designed for the general student and classroom teacher. Not intended for guitarists who read music. (A, CSU, UC)

**28 BEGINNING GUITAR: LEVEL II**  
**2 units, 1.5 lecture hours, 2 lab hours,**  
**(Formerly Music 28B)**  
 PREREQUISITE: Music 27 or ability to read music. Must have basic understanding of and playing skill in the classical guitar as determined by testing. Own instrument required.  
 Continuation and expansion of knowledge and techniques learned in Music 27. Classical, popular, and world music studied and performed. Artistic self-expression developed through scales, exercises, and repertoire with extended range, varied rhythms, and with multiple lines. Designed for the serious student of guitar. (A, CSU, UC)

**322 SENIOR PIANO SKILLS**  
**1 lecture hour, 3 lab hours, (Repeats = 99)**  
 PREREQUISITE: Students must meet the minimum age requirement.  
 Builds skills in piano performance including technical, stylistic and aesthetic elements of the standard repertoire. Weekly individual instruction including ensemble and solo performance required. Students must perform solo juries in front of faculty each semester. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**326 SENIOR VOCAL SKILLS**  
**1 lecture hour, 1-3 lab hours, (Repeats = 99)**  
 PREREQUISITE: Students must meet the minimum age requirement.  
 Studies in technical, stylistic, aesthetic, and expressive elements of standard solo vocal literature. Solo performance required. Baroque, Classical, Romantic, 20th Century and World Music literature assigned as appropriate to the student's development level. Weekly individual instruction, recital performance, and semester-culminating jury required. Audition necessary. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**327 SENIOR GUITAR SKILLS****1.5 lecture hour, 2 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet the minimum age requirement.

Builds skills in guitar performance. Develops technical, stylistic, and aesthetic elements of guitar playing. Ensemble and solo performance required. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**342A SENIOR BRASS SKILLS****1 lecture hour, 1-3 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet the minimum age requirement. ADVISORY: Ability to perform on an instrument or voice at intermediate/advanced level.

Provides a performance venue for students taking weekly individual private lessons in brass which will include historical and cultural investigation of brass solo and ensemble literature. Students are required to perform solo juries in front of faculty each semester. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**342B SENIOR WOODWIND SKILLS****1 lecture hour, 1-3 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet the minimum age requirement. ADVISORY: Ability to perform on an instrument or voice at intermediate/advanced level.

Provides a performance venue for students taking weekly individual private lessons in woodwinds which will include historical and cultural investigation of woodwind solo and ensemble literature. Students are required to perform solo juries in front of faculty each semester. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**342C SENIOR STRING SKILLS****1 lecture hour, 1-3 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet the minimum age requirement. ADVISORY: Ability to perform on an instrument or voice at intermediate/advanced level.

Provides a performance venue for students taking weekly individual private lessons in strings which will include historical and cultural investigation of string solo and ensemble literature. Students are required to perform solo juries in front of faculty each semester. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**342D SENIOR PERCUSSION SKILLS****1 lecture hour, 1-3 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet the minimum age requirement. ADVISORY: Ability to perform on an instrument or voice at intermediate/advanced level.

Provides a performance venue for students taking weekly individual private lessons in percussion which will include historical and cultural investigation of percussion solo and ensemble literature. Students are required to perform solo juries in front of faculty each semester. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**348 SENIOR LATIN JAZZ SKILLS****1 lecture hour, 3 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet minimum age requirements.

Study and performance of Latin jazz and Afro-Cuban music. Students will develop an awareness and appreciation of the music of Latin America and Cuba through artistic and cultural creation. Participation in concerts and jazz festivals required. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

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**INTERMEDIATE/ADVANCED ENSEMBLES AND  
INDIVIDUAL LESSONS**


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**22 INTERMEDIATE/ADVANCED PIANO****1-2 units, 1 lecture hour, 1-3 lab hours,  
(Repeats = 3), (Formerly Music 21)**

PREREQUISITE: Music 21 or the equivalent as determined by testing.

Technical, stylistic and aesthetic elements of the performing repertory from the standard literature of piano solo and ensemble music. Weekly individual instruction: ensemble and solo performance required. Students are required to perform solo juries in front of faculty each semester. Please consult instructor regarding variable units. (C-ID MUS 160) (A, CSU, UC)

**26 INTERMEDIATE/ADVANCED VOICE**

**1-2 units, 1 lecture hour, 1-3 lab hours,  
(Repeats = 3)**

PREREQUISITE: Music 25 or intermediate or advanced level ability as determined by testing. ADVISORY: Eligibility for English 1A recommended.

Studies in technical, stylistic, and aesthetic elements of performing repertory from the standard vocal solo literature. Solo performance required. Artistic self-expression will be developed through performance of the standard literature for solo voice. Baroque, classic, romantic, 20th century and world music literature assigned as appropriate to the students development level. Weekly individual instruction; designed to help transferring music majors pass vocal jury exams at four-year colleges and universities. Students working toward the Associate in Arts in Music for Transfer (AA-T) are advised to enroll in 1 unit only. Please consult instructor regarding variable units. Audition Required. (A, CSU, UC)

**29 INTERMEDIATE/ADVANCED GUITAR**

**1-2 units, 1 lecture hour, 1-3 lab hours,  
(Repeats = 3)**

PREREQUISITE: Music 28 or the equivalent performance skills as determined by testing.

Studies in technical, stylistic and aesthetic elements of the performing repertory from the standard literature of solo and ensemble guitar music. Repertoire from varying historical periods of classical music and different world cultures. Weekly individual instruction. Designed to help transferring music majors pass jury exams on their instruments at four-year colleges and universities. Students are required to perform solo juries in front of faculty each semester. Please consult instructor regarding variable units. Audition required. (C-ID MUS 160) (A, CSU, UC)

**42A INTERMEDIATE/ADVANCED BRASS  
(BRASS CHOIR)**

**1-2 units, 1 lecture hour, 1-3 lab hours,  
(Repeats = 3), (Formerly Music 42)**

ADVISORY: Ability to perform on an instrument or voice at intermediate/advanced level as determined by audition.

Provides a performance venue for music majors taking weekly individual private lessons in brass which will include historical and cultural investigation of 16th-21st century brass ensemble literature. Students are required to perform solo juries in front of faculty each semester. Audition required. Students wishing to earn the Associate in Arts in Music for Transfer (AA-T) degree are advised to enroll in 1-unit. All others take 2-units. (C-ID MUS 160) (A, CSU, UC)

**42B INTERMEDIATE/ADVANCED WOODWINDS  
(WOODWIND CHOIR)**

**1-2 units, 1 lecture hour, 1-3 lab hours,  
(Repeats = 3), (Formerly Music 43)**

ADVISORY: Ability to perform on an instrument or voice at intermediate/advanced level as determined by audition.

Provides a performance venue for music majors taking weekly required individual private lessons in woodwinds which will include historical and cultural investigation of 16th-21st century woodwind ensemble literature. Students are required to perform solo juries in front of faculty each semester. Audition required. Students wishing to earn the Associate in Arts in Music for Transfer (AA-T) degree are advised to enroll in 1-unit. All others take 2-units. (C-ID MUS 160) (A, CSU, UC)

**42C INTERMEDIATE/ADVANCED STRINGS  
(STRING ORCHESTRA)**

**1-2 units, 1 lecture hour, 1-3 lab hours,  
(Repeats = 3), (Formerly Music 44)**

ADVISORY: Ability to perform on an instrument or voice at intermediate/advanced level as determined by audition.

Provides a performance venue for music majors taking weekly required individual private lessons in strings which will include historical and cultural investigation of 16th-21st century string ensemble literature. Students are required to perform solo juries in front of faculty each semester. Audition required. Students wishing to earn the Associate in Arts in Music for Transfer (AA-T) degree are advised to enroll in 1-unit. All others take 2-units. (C-ID MUS 160) (A, CSU, UC)

**42D INTERMEDIATE/ADVANCED PERCUSSION  
(PERCUSSION ENSEMBLE)**

**1-2 units, 1 lecture hour, 1-3 lab hours,  
(Repeats = 3), (Formerly Music 46)**

ADVISORY: Ability to perform on an instrument or voice at intermediate/advanced level as determined by audition.

Provides a performance venue for music majors taking weekly required individual private lessons in percussion which will include historical and cultural investigation of 16th-21st century percussion ensemble literature. Students are required to perform solo juries in front of faculty each semester. Audition required. Students wishing to earn the Associate in Arts in Music for Transfer (AA-T) degree are advised to enroll in 1-unit. All others take 2-units. (C-ID MUS 160) (A, CSU, UC)

**49 ADVANCED LARGE ENSEMBLES  
1 unit, 3 lab hours**

ADVISORY: Ability to perform advanced level large ensemble music as determined by audition.

Study of music required for auditions to professional ensembles and transfer institutions. Advanced-level ensemble works emphasized and solo repertoire included. Designed for music major or transfer students. Audition required. (A, CSU, UC) (C-ID MUS 160)

**57 SOLO REPERTOIRE STUDIES I****1 unit, 3 lab hours**

PREREQUISITE: Four semesters of Music 22, 26, or 29 or the equivalent as determined by audition. ADVISORY: Advanced vocal or instrumental performance skills recommended. Eligibility for English 1A recommended.

Vocal and instrumental solo music of the Baroque and Classical periods. (A, CSU, UC)

**59 ADVANCED CHAMBER ENSEMBLES****1 unit, 3 lab hours**

ADVISORY: Ability to perform advanced level chamber music as determined by audition.

Study of music required for auditions to professional ensembles and transfer institutions. Advanced-level chamber ensemble works emphasized and solo repertoire included. Designed for music major or transfer students. Audition required. (A, CSU, UC)

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**LARGE PERFORMING ORGANIZATIONS**


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**30 COLLEGE CHOIR****1-2 units, 4-6 lab hours, (Repeats = 3)**

ADVISORY: Ability to perform advanced high school choral music or the equivalent performance skills as determined through audition. Eligibility for English 1A recommended.

Study and performance of choral music for large ensemble. Repertoire is drawn from a variety of historical periods of classical music and different world cultures. Concert, festival, and tour participation required. Students working toward the Associate in Arts in Music for Transfer (AA-T) are advised to enroll in 1 unit only. (C-ID MUS 180) (A, CSU, UC)

**34 FRESNO CHORALE****1-2 units, 4-6 lab hours, (Repeats = 3), (Formerly Music 31)**

PREREQUISITE: Audition required. ADVISORY: Eligibility for English 1A recommended.

Study and performance of small choral ensemble specializing in early music. Repertoire from the historical periods of the Middle Ages, Renaissance and Baroque will be explored. Opportunities for public performance. Students working toward the Associate in Arts in Music for Transfer (AA-T) are advised to enroll in 1 unit only. (C-ID MUS 180) (A, CSU, UC)

**35 CITY SINGERS****2 units, 6 lab hours, (Repeats = 3), (Formerly Music 33)**

ADVISORY: Ability to perform advanced high school choral music. Audition required.

Study and performance of advanced-level choral music for large ensemble. Repertoire is drawn from a variety of historical periods of classical music and different world cultures. Concert, festival and tour participation required. (C-ID MUS 180) (A, CSU, UC)

**39A OPERA WORKSHOP - BAROQUE/ CLASSICAL****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Music 26 or the equivalent as determined by audition recommended. Eligibility for English 1A recommended.

The rehearsal, study, and performance of scenes and complete operatic works from the Baroque and Classical periods. (C-ID MUS 180) (A, CSU, UC)

**39B OPERA WORKSHOP - ROMANTIC PERIOD****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Music 26 or the equivalent as determined by audition recommended. Eligibility for English 1A recommended.

The study, rehearsal, and performance of major Romantic and Modern operatic works. (C-ID MUS 180) (A, CSU, UC)

**39C CLASSICAL MUSICAL THEATRE****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Music 26 or the equivalent as determined by audition recommended. Eligibility for English 1A recommended.

The study, rehearsal, and performance of classic musical theatre, review, or operetta. (A, CSU, UC)

**39D CONTEMPORARY OPERA AND MUSICAL THEATRE****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Music 26 or the equivalent as determined by audition recommended. Eligibility for English 1A recommended.

The study, rehearsal, and performance of contemporary opera and/or musical theatre. Performance of new original works is included. (A, CSU, UC)

**40 CONCERT BAND****1-2 units, 4-6 lab hours, (Repeats = 3)**

ADVISORY: Ability to perform advanced high school band music or the equivalent performance skills as determined by audition recommended. Eligibility for English 1A recommended.

Modern literature with an emphasis on compositions of composers from the 20th and 21st century will be performed and studied. Interpretation of a variety of band music drawn from various historical periods of classical music and different world cultures with awareness of self-expression. Performances at selected college events. Participation in all performances required. Students working toward the Associate in Arts in Music for Transfer (AA-T) are advised to enroll in 1 unit only. (C-ID MUS 180) (A, CSU, UC)

**41 JAZZ ENSEMBLE****1-2 units, 4-6 lab hours, (Repeats = 3)**

ADVISORY: Advanced high school band or jazz ensemble experience or the equivalent performance skills as determined by audition recommended. Eligibility for English 1A recommended.

Study and performances of a broad range of jazz ensemble literature. Repertoire from varying historical periods of jazz music and different world cultures. Participation in concerts and jazz festivals required. Students working toward the Associate in Arts in Music for Transfer (AA-T) are advised to enroll in 1 unit only. (C-ID MUS 180) (A, CSU, UC)

**46 SYMPHONY ORCHESTRA****1-2 units, 4-6 lab hours,  
(Repeats = 3), (Formerly Music  
45)**

ADVISORY: Ability to perform advanced high school band or orchestra music or the equivalent performance skills as determined by audition recommended. Eligibility for English 1A recommended.

Study and performance of orchestral literature of all eras. Repertoire from varying historical periods of classical music and different world cultures. Combines college students and community members. Participation in all performances is required (two or three each semester). Students working toward the Associate in Arts in Music for Transfer (AA-T) are advised to enroll in 1 unit only. (C-ID MUS 180) (A, CSU, UC)

**47A JAZZ COMBO A****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Ability to perform on an instrument or voice at college level as determined by audition. Music 10A or 10B recommended.

Performance and analysis of New Orleans, Swing and Bop jazz literature for the small jazz combo. Designed for the music major and the commercial music student. (C-ID MUS 180) (A, CSU, UC)

**47B JAZZ COMBO B****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Ability to perform on an instrument or voice at college level as determined by audition. Music 10A or 10B recommended.

Study and performance of Cool and Mainstream jazz literature for the small ensemble. Participation in concerts and festivals required. (C-ID MUS 180) (A, CSU, UC)

**47C JAZZ COMBO C****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Ability to perform on an instrument or voice at college level as determined by audition. Music 10A or 10B recommended.

Study and performance of Modern and Fusion jazz literature for the small ensemble, with emphasis on original compositions. Participation in concerts and festivals required. (C-ID MUS 180) (A, CSU, UC)

**47D JAZZ COMBO D****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Ability to perform on an instrument or voice at college level as determined by audition. Music 10A or 10B recommended.

Study and performance of World Music literature for the small ensemble with emphasis on original compositions. (C-ID MUS 180) (A, CSU, UC)

**48 LATIN JAZZ ENSEMBLE****2 units, 1 lecture hour, 3 lab hours, (See  
also Chicano-Latino Studies 18)**

ADVISORY: Ability to perform on an instrument or voice at college level as determined by audition. Eligibility for English 1A recommended.

Study and performance of Latin jazz and Afro-Cuban music. Students will develop an awareness and appreciation of the music of Latin America and Cuba through artistic and cultural creation. Participation in concerts and jazz festivals required. (C-ID MUS 180) (A, CSU, UC)

**53 LATIN JAZZ WORKSHOP****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Ability to perform on an instrument or voice at college level as determined by audition.

Study and performance of contemporary jazz-based music based on Caribbean, Brazilian, other South American, and Afro-Cuban styles. Repertoire is drawn from historical multi-cultural perspectives. Participation in concerts and jazz festivals required. (C-ID MUS 180) (A, CSU, UC)

**54 AFRO-LATIN ENSEMBLE****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Ability to perform on an instrument or voice at college level as determined by audition.

Study and performance of traditional and contemporary music based on shared African and Caribbean influences and heritage. Participation in concerts is required. (C-ID MUS 180) (A, CSU, UC)

**55 AFRO-CARIBBEAN ENSEMBLE****2 units, 1 lecture hour, 3 lab hours**

ADVISORY: Ability to perform on an instrument or voice at college level as determined by audition.

Study and performance of traditional and contemporary music based on shared African and Caribbean influences and heritage. Participation in concerts is required. (C-ID MUS 180) (A, CSU, UC)

**60 SYMPHONIC CHOIR****1-2 units, 4-6 lab hours, (Repeats = 3)**

ADVISORY: Audition. Ability to perform advanced high school choral music or the equivalent performance skills. Eligibility for English 1A recommended.

Study and performance of choral music, with emphasis on major choral works of the nineteenth and twentieth centuries and orchestral/choral works. Participation in concerts and festivals required. Students working toward the Associate in Arts in Music for Transfer (AA-T) are advised to enroll in 1 unit only. (C-ID MUS 180) (A, CSU, UC)

**68 SYMPHONIC BAND****1-2 units, 4-6 lab hours, (Repeats = 3)**

PREREQUISITE: Intermediate/advanced level skill on a band instrument recommended. Audition required. ADVISORY: Eligibility for English 1A recommended.

Concepts of intonation, balance, blend, basic articulation and public performance. Rehearsal and performance of symphonic band literature with an emphasis on 19th and 20th century works. Students working toward the Associate in Arts in Music for Transfer (AA-T) are advised to enroll in 1 unit only. (A, CSU, UC)

**72 JAZZ COMPOSER'S ORCHESTRA****2 units, 1 lecture hour, 4 lab hours**

ADVISORY: Advanced high school jazz ensemble or band experience, or equivalent performance skills (as determined by audition) are recommended. Eligibility for English 1A recommended.

Study and performance of complex, compositionally advanced, and professional level modern jazz ensemble literature. Participation in concerts and festivals required. (C-ID MUS 180) (A, CSU, UC)

**76 COLLEGE PHILHARMONIC ORCHESTRA****1-2 units, 4-6 lab hours, (Repeats = 3)**

ADVISORY: Ability to perform advanced high school band or orchestra music or the equivalent performance skills (as determined by audition during the first two weeks) recommended. Eligibility for English 1A recommended.

Study and performance of orchestral music, with emphasis on major works of the eighteenth and nineteenth centuries. Participation in all public performances is required. Students working toward the Associate in Arts in Music for Transfer (AA-T) are advised to enroll in 1 unit only. (C-ID MUS 180) (A, CSU, UC)

**92 VOCAL JAZZ WORKSHOP****2 units, 1 lecture hour, 4 lab hours, (Repeats = 3)**

ADVISORY: Advanced high school vocal experience, or equivalent performance skills recommended.

Rehearsal and performance of vocal jazz literature. Repertoire is drawn from varying historical periods of jazz and world cultural influences. Participation in concerts and festivals required. (C-ID MUS 180) (A, CSU, UC)

**339 SENIOR OPERA WORKSHOP****1 lecture hour, 3 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet minimum age requirement. ADVISORY: Music 26 or the equivalent.

Builds skills in opera and music theatre performance. Develops technical, stylistic, and aesthetic elements of the standard performing repertory. Performance required. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**340 SENIOR SKILLS CONCERT BAND****4 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet minimum age requirement. ADVISORY: Ability to perform advanced high school band music or the equivalent performance skills as determined by audition recommended.

Modern literature with an emphasis on compositions of composers from the 20th and 21st century will be performed and studied. Interpretation of a variety of band music drawn from various historical periods of classical music and different world cultures with awareness of self-expression. Performances at selected college events. Participation in all performances required. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.



**341 SENIOR JAZZ PERFORMANCE ENSEMBLE**  
**4-6 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet minimum age requirement.

Builds skills in jazz ensemble performance. Study of technical, stylistic and aesthetic elements of all eras and styles of jazz ensemble literature. 3-4 performances per semester required. Auditions advised (for ensemble balance and placement within section.) The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**344 SENIOR CHORAL SKILLS**  
**3 lab hours, (Pass/No Pass), (Repeats = 99)**

PREREQUISITE: Students must meet minimum age requirement.

Builds skills in choral singing. Basic singing skills, performance practice and ensemble work from all periods of standard choral literature will be studied. Participation in 1-2 semester performances will be required by students. Weekly sectionals also assigned during the semester. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

**375 SENIOR COMMUNITY ORCHESTRA**  
**4 lab hours, (Repeats = 99)**

PREREQUISITE: Students must meet minimum age requirement.

ADVISORY: Ability to perform advanced high school band or orchestra music or the equivalent performance skills (as determined by audition during the first two weeks) recommended.

Study and performance of orchestral music, with emphasis featuring senior student and community soloists. Community musicians are encouraged to participate. Participation in all public performances is required. The course meets the needs of Seniors by accommodating their physical abilities and utilizing their unique related experiences and knowledge.

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**NATIVE AMERICAN STUDIES**

SEE AMERICAN INDIAN STUDIES

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**NATURAL SCIENCE (NATSCI)**

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**1A INTEGRATED SCIENCE: PHYSICS AND CHEMISTRY**

**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Mathematics 103. ADVISORY: Eligibility for English 1A recommended.

Basic concepts of physics and chemistry and their relation to the everyday environment. Includes laboratory and demonstrations with special application to K-6 teachers. Specifically designed to satisfy the requirements of students who intend on transferring to the CSU Liberal Studies Major. (C-ID PHYS 140 and CHEM 140) (A, CSU-GE, UC)

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**NURSING REGISTERED NURSING (RN)**

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**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL**  
**1-8 units**

COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Must be currently enrolled in the Associate Degree Nursing Program.

Supervised employment extending the classroom based on occupational learning related to nursing. Collaborative learning objectives established specific to nursing. Seventy-five (75) hours of paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**31 FOUNDATIONS AND INTRODUCTION TO MEDICAL - SURGICAL NURSING**  
**4 units, 4 lecture hours, (Formerly Registered Nursing 1)**

PREREQUISITE: Acceptance into the Registered Nursing Program. COREQUISITE: Registered Nursing 32 and 32A.

Introduction to registered nursing; the roles of the registered nurse, the nursing process, critical thinking, theoretical concepts and principles necessary to administer beginning level assessment and interventions (procedures) for adults. (A, CSU)

**32 FOUNDATIONS AND INTRODUCTION TO MEDICAL - SURGICAL NURSING CLINICAL**  
**2 units, 6 lab hours, (Formerly Registered Nursing 2)**

PREREQUISITE: Registered Nursing 32A. COREQUISITE: Registered Nursing 31.

Clinical experiences to provide application of the nursing process, critical thinking, knowledge and basic skills necessary to administer beginning level assessment and interventions (procedures) for adults. (A, CSU)

**32A FOUNDATIONS AND INTRODUCTION TO MEDICAL - SURGICAL NURSING SKILLS**  
**2 units, 6 lab hours**

PREREQUISITE: Acceptance into the Registered Nursing Program. COREQUISITE: Registered Nursing 31.

Basic nursing skills performance in a simulated clinical environment for the beginning nursing student. (A, CSU)

- 33 TRANSCULTURAL HEALTH CARE**  
**1 unit, 1 lecture hour, (Formerly Registered Nursing 21)**  
 COREQUISITE: Registered Nursing 31.  
 Cultural and spiritual concepts as they relate to the application of nursing care. (A, CSU)
- 35A PHARMACOLOGY A: INTRODUCTION TO PHARMACOLOGY**  
**1 unit, 1 lecture hour**  
 COREQUISITE: Registered Nursing 31, 32, and 32A.  
 General principles of pharmacology, legal, ethical and safety aspects of medication administration. Drug information includes pharmacotherapeutics, pharmacodynamics, pharmacokinetics, contraindications and precautions, adverse effects and drug interactions, as well as client variables such as health status, life span and gender, diet, lifestyle and habits, environment, and culture in relationship to drug therapy. (A, CSU)
- 35B PHARMACOLOGY B: NURSING PHARMACOLOGICAL APPLICATIONS**  
**2 units, 2 lecture hours**  
 PREREQUISITE: Registered Nursing 35A with a grade of "C" or better. COREQUISITE: Registered Nursing 41, 42, and 42A.  
 Methodical application of drug information that impacts physiologic body systems including contraindications and precautions, adverse effects and drug interactions. Emphasis is placed on nursing responsibilities such as maximizing therapeutic effects and minimizing adverse effects of drug therapy, appropriate client and family teaching, and ongoing assessment of the client. (A, CSU)
- 41 NURSING CARE OF THE ADULT WITH COMMON HEALTH PROBLEMS**  
**2.5 units, 2.5 lecture hours**  
 PREREQUISITE: Registered Nursing 31 and 35A with a grade of "C" or better. COREQUISITE: Registered Nursing 35B, 42 and 42A.  
 Theoretical concepts related to the registered nurse caring for the adult client with common health problems. Through utilization of the nursing process, the student will recognize alterations in functioning or illness and formulate client specific nursing interventions. (A, CSU)
- 42 NURSING CARE OF THE ADULT WITH COMMON HEALTH PROBLEMS CLINICAL**  
**2 units, 6 lab hours**  
 PREREQUISITE: Registered Nursing 31, 32, 32A, and 35A with a grade of "C" or better. COREQUISITE: Registered Nursing 35B, 41, and 42A.  
 Nursing care of the adult with common health problems in the acute care setting. Implementation of psychomotor skills associated with implementing client care, medication administration, and intravenous therapy. (A, CSU)
- 42A NURSING CARE OF THE ADULT WITH COMMON HEALTH PROBLEMS SKILLS**  
**1 unit, 3 lab hours**  
 PREREQUISITE: Registered Nursing 31, 32 and 32A with a grade of "C" or better. COREQUISITE: Registered Nursing 35B, 41 and 42.  
 Basic nursing skills performance in a simulated clinical environment for the registered nursing student caring for adults with common health problems. (A, CSU)
- 45 NURSING CARE OF THE CHILDBEARING FAMILY THEORY**  
**2.5 units, 2.5 lecture hours, (Formerly Registered Nursing 5)**  
 PREREQUISITE: Registered Nursing 31, 32, 32A, 33, and 35A with a grade of "C" or better. COREQUISITE: Registered Nursing 46.  
 Family centered nursing approach to the child bearing cycle, birth, the neonate, and family bonding; physiology of pregnancy, labor, and recovery. (A, CSU)
- 46 NURSING CARE OF THE CHILDBEARING FAMILY CLINICAL**  
**1.5 units, 4.5 lab hours, (Formerly Registered Nursing 6)**  
 PREREQUISITE: Registered Nursing 31, 32, 32A, 33 and 35A with a grade of "C" or better. COREQUISITE: Registered Nursing 45.  
 Clinical application of the principles and practices of nursing care of the child bearing family surrounding the ante-, intra-, and postpartum physical and psychosocial adaptations. (A, CSU)
- 51 NURSING CARE OF THE ADULT WITH COMPLEX HEALTH PROBLEMS**  
**3 units, 3 lecture hours**  
 PREREQUISITE: Registered Nursing 35B, 41, 42, and 42A with a grade of "C" or better. COREQUISITE: Registered Nursing 52, 52A and 53.  
 Synthesize and correlate nursing knowledge and skills in providing care to adults who have complex, multi-system illnesses. Focus will be for the registered nursing students to predict client needs and priorities, and evaluate outcomes on care. (A, CSU)
- 52 NURSING CARE OF THE ADULT AND OLDER ADULT WITH COMPLEX HEALTH PROBLEMS CLINICAL**  
**2 units, 6 lab hours**  
 PREREQUISITE: Registered Nursing 35B, 41, 42, and 42A with a grade of "C" or better. COREQUISITE: Registered Nursing 51, 52A, and 53.  
 Nursing care of the adult and older adult client with complex health problems in the acute hospital setting and community based support agencies. (A, CSU)

**52A NURSING CARE OF THE ADULT AND OLDER ADULT WITH COMPLEX HEALTH PROBLEMS SKILLS**

**0.5 unit, 1.5 lab hours**

PREREQUISITE: Registered Nursing 41, 42 and 42A with a grade of "C" or better. COREQUISITE: Registered Nursing 51, 52 and 53.

Advanced nursing skills performance in a simulated clinical environment for the advanced nursing student caring for the adult and older adult with complex health problems. (A, CSU)

**53 NURSING CARE OF THE OLDER ADULT**  
**1 unit, 1 lecture hour**

PREREQUISITE: Registered Nursing 35B, 41, and 42 with a grade of "C" or better. COREQUISITE: Registered Nursing 51, 52, and 52A.

Theoretical concepts of the aging process and the Registered Nurse's role in meeting the needs of older adult clients in the community and acute care settings. (A, CSU)

**55 NURSING CARE OF INFANTS AND CHILDREN**

**2 units, 2 lecture hours, (Formerly Registered Nursing 13)**

PREREQUISITE: Registered Nursing 35B, 41, 42, 42A, 45 and 46 with a grade of "C" or better. COREQUISITE: Registered Nursing 56.

Theoretical concepts and integration of the nursing process as it relates to the nursing care of infants, children, and their families. Emphasis is on the concepts and skills related to age appropriate family centered care. (A, CSU)

**56 NURSING CARE OF INFANTS AND CHILDREN CLINICAL**

**2 units, 6 lab hours, (Formerly Registered Nursing 14)**

PREREQUISITE: Registered Nursing 35B, 41, 42, 42A, 45 and 46 with a grade of "C" or better. COREQUISITE: Registered Nursing 55.

Clinical application of the nursing process when caring for infants, children, and their families in a pediatric setting. Clinical experience will take place in the acute care setting on pediatric medical-surgical units and various specialty units. (A, CSU)

**61 NURSING CARE OF THE CRITICALLY ILL ADULT AND COORDINATOR OF CARE**  
**2.5 units, 2.5 lecture hours**

PREREQUISITE: Registered Nursing 35B, 51, 52, 52A, and 53 with a grade of "C" or better. COREQUISITE: Registered Nursing 62 and 62A.

Advanced application of the nursing process in the care of critically ill adult clients and coordination of care to groups of clients. Organizing and discriminating data to establish priorities of care. Concepts of the registered nurse as a manager and a leader. Fulfills the computer familiarity graduation requirement for the Registered Nursing major only. (A, CSU)

**62 NURSING CARE OF THE CRITICALLY ILL ADULT AND COORDINATOR OF CARE CLINICAL**

**3 units, 9 lab hours**

PREREQUISITE: Registered Nursing 51, 52, 52A, and 53 with a grade of "C" or better. COREQUISITE: Registered Nursing 61 and 62A.

Nursing care of the critically ill adult client and coordination of care in the acute hospital setting. Emphasis is placed on coordinating care for multiple adult clients. (A, CSU)

**62A NURSING CARE OF THE CRITICALLY ILL ADULT SKILLS**

**0.5 unit, 1.5 lab hours**

PREREQUISITE: Registered Nursing 51, 52, and 52A with a grade of "C" or better. COREQUISITE: Registered Nursing 61 and 62.

Advanced nursing skills performance in a simulated clinical environment for the advanced nursing student caring for critically ill clients. (A, CSU)

**65 NURSING CARE OF THE CLIENT WITH BEHAVIORAL AND EMOTIONAL DISORDERS**

**2 units, 2 lecture hours, (Formerly Registered Nursing 9)**

PREREQUISITE: Registered Nursing 35B, 51, 52, and 53 with a grade of "C" or better. COREQUISITE: Registered Nursing 66.

Theoretical concepts comprising a comprehensive overview of functional and dysfunctional human behavior, therapeutic communication, treatment modalities, delivery of mental health care services, mental health legislation, and the role and responsibilities of the psychiatric/mental health nurse. (A, CSU)

- 66 NURSING CARE OF THE CLIENT WITH BEHAVIORAL AND EMOTIONAL DISORDERS CLINICAL**  
**1.5 units, 4.5 lab hours, (Formerly Registered Nursing 10)**  
 PREREQUISITE: Registered Nursing 35B, 51, 52, and 53 with a grade of "C" or better. COREQUISITE: Registered Nursing 65.  
 Clinical application of the nursing principles and practices of clients with emotional and behavioral disorders in the acute care and community settings. (A, CSU)
- 101 TRANSITION TO FRESNO CITY COLLEGE REGISTERED NURSING PROGRAM**  
**1.5 units, 1.5 lecture hours**  
 COREQUISITE: Registered Nursing 102.  
 Required for all students entering the Fresno City College Registered Nursing Program as an advanced placement student including LVN to RN and transfer students from other nursing programs. Focus on the theory and application of concepts of physical assessment, the nursing process, critical thinking, and the relationship of homeostatic mechanisms to fluids and electrolytes and nursing competencies in the professional roles of clinician, teacher, leader and advocate. (A)
- 102 TRANSITION TO FRESNO CITY COLLEGE REGISTERED NURSING PROGRAM SKILLS**  
**1 unit, 3 lab hours**  
 COREQUISITE: Registered Nursing 101.  
 Required for all students entering the Fresno City College Registered Nursing Program as an advanced placement student including LVN to RN and transfer students from other nursing programs. Focus on skills acquisition and validation prior to entering the hospital setting. (A)
- 105 MEDICATION MATH**  
**0.5 unit, 0.5 lecture hour, (Pass/No Pass), (Formerly Registered Nursing 23)**  
 COREQUISITE: Acceptance into the Registered Nursing Program.  
 Calculation of medication dosages, including review of mathematical concepts. (A)
- 107 INTRODUCTION TO NURSING PROCESS**  
**0.5 unit, 0.5 lecture hour, (Pass/No Pass), (Formerly Registered Nursing 25)**  
 COREQUISITE: Acceptance into the Registered Nursing Program.  
 Introduction to the nursing process and development of nursing care plans. (A)
- 201 NCLEX-RN REVIEW**  
**2 units, 2 lecture hours, (Pass/No Pass)**  
 COREQUISITE: Registered Nursing 61.  
 Review and preparation for National Council Licensure Exam for Registered Nursing (NCLEX-RN). Includes test format, content review, and test-taking strategies.
- 202 SUCCESS STRATEGIES FOR RN STUDENTS**  
**1 unit, 1 lecture hour, (Pass/No Pass)**  
 PREREQUISITE: Acceptance into the nursing program.  
 Study and test-taking skills for the student nurse. Assessment of learning styles and development of strategies for student success, including application of critical thinking in Registered Nursing.
- 204 INTRODUCTION TO THE NURSING PROFESSION**  
**1.5 units, 3 lecture hours, (9 weeks), (Pass/No Pass)**  
 PREREQUISITE: Acceptance of application into the Fresno City College RN program.  
 Introduction to the Registered Nursing program and the Registered Nursing profession for the pre-nursing student.
- 205 CARE OF THE CHILDBEARING AND PARENTING FAMILY THEORY**  
**1 unit, 1 lecture hour, (Pass/No Pass)**  
 PREREQUISITE: Acceptance into the RN program as an LVN to RN, transfer, or international student.  
 Theoretical concepts and integration of the nursing process as it relates to the nursing care of childbearing and parenting families.
- 206 CARE OF THE CHILDBEARING AND PARENTING FAMILY SIMULATION**  
**0.5 unit, 1.5 lab hours, (Pass/No Pass)**  
 PREREQUISITE: Acceptance into the RN program as an LVN to RN, transfer, or international student.  
 Application in a simulated setting of the principles and practices of nursing care for childbearing and parenting families.
- 207 PERIOPERATIVE NURSING**  
**1.5 units, 1 lecture hours, 2 lab hours, (Pass/No Pass)**  
 PREREQUISITE: Registered Nursing 42A.  
 Introduction to perioperative nursing care for inpatient and/or outpatient clients with exposure to the roles of the circulating nurse, scrub nurse, PACU nurse, and ancillary services.

## PARALEGAL (PLEGAL)

*Courses required for paralegal degree/certificate are offered regularly. Some elective courses are scheduled less frequently than others.*

### 1 INTRODUCTION TO PARALEGALISM

**3 units, 3 lecture hours**

COREQUISITE: Business Administration 20. ADVISORY: English

1A.

Overview of paralegal profession, including historical development, employment, ethics, job responsibilities, litigation process, legal analysis, and legal research and writing. (A, CSU)

### 2A LEGAL RESEARCH AND WRITING I

**3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1

Development of legal research skills through the use of primary and secondary sources. Development of legal writing skills through the preparation of various legal writing assignments. (A, CSU)

### 2B LEGAL RESEARCH AND WRITING II

**3 units, 3 lecture hours**

PREREQUISITE: Paralegal 2A.

Development of advanced legal research skills using more sophisticated legal research tools. Development of more sophisticated legal writing skills through preparation of more advanced and specialized legal writing assignments. (A, CSU)

### 3 FAMILY LAW

**3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Marriage, divorce, nonmarital cohabitation, invalid marriages, separation, annulments, client interviewing, commencing the proceedings, orders pending trial, support, child custody and visitation, marital property, adoption and parentage. (A, CSU)

### 4 PROBATE

**3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Estates, trusts, wills, probate procedures, property (real and personal), sales, taxes, formal and informal probate administration. (A, CSU)

### 5 BUSINESS ORGANIZATIONS

**3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Corporations, partnerships, joint ventures, and sole proprietorships. Legal problems associated with the various forms of business organizations including formation, management, control, securities, capitalization, taxation, reorganization, and dissolution. (A, CSU)

### 6A LITIGATION I

**3 units, 3 lecture hours**

COREQUISITE: Paralegal 2B.

Role of the paralegal in the litigation process. Court system and jurisdiction issues, types and forms of pleadings, calendaring pleadings, and forms of discovery. (A, CSU)

### 6B LITIGATION II

**3 units, 3 lecture hours**

PREREQUISITE: Paralegal 6A.

Role of the paralegal in the litigation process. Forms discovery; calendaring discovery; law and motion; trial setting; arbitration; preparation for trial and trial procedures; judgments; post-trial motions and appeals; and provisional remedies. (A, CSU)

### 7 LAW OFFICE ADMINISTRATION AND ETHICS

**3 units, 3 lecture hours**

COREQUISITE: Paralegal 1.

Principles of law office management and operation to include professional ethics, human relations, general office procedures, and office supervision. Preparation for working in law office environment. (A, CSU)

### 8 TORTS/CONTRACTS

**3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Overview of tort law and contract law doctrines. Basic tort/contract concepts and terminology including negligence, strict liability, intentional and constitutional torts, defenses and immunities, offer and acceptance, consideration, performance and discharge, contract drafting, and contract interpretation. (A, CSU)

### 10 CRIMINAL LAW AND PROCEDURE

**3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Introduction to substantive/procedural aspects of criminal law including crimes against persons and property, defenses to crimes, motions to suppress evidence, jury and court trials, sentencing, and appeals. (A, CSU)

### 11 EVIDENCE

**3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Legal concepts and terminology associated with the law of evidence, including relevance, hearsay, presumptions, cross-examinations, impeachment, and privileges. (A, CSU)

**12 BANKRUPTCY****3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Introduction to bankruptcy law including bankruptcy proceedings, evaluating a client's options in regard to such proceedings, and learning the rights/responsibilities of debtors and creditors. (A, CSU)

**14 LAW OFFICE COMPUTING****3 units, 2 lecture hours, 3 lab hours**

COREQUISITE: Paralegal 1 or Paralegal 156 or Business Technology 140.

Introduction to the use of various legal-specific computer software programs (litigation support, forms creation, docketing, document management, etc.) commonly found in law offices. Hands-on training on use of selected programs. (A, CSU)

**15 DEBT COLLECTION AND ENFORCEMENT OF JUDGMENTS****3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Emphasis on the procedures and forms required for levying on real and personal property pursuant to judgments entered. Specific topics include enforcement strategies, filing judicial liens, issuing writs of execution, levying on personal and real property, preparing wage garnishment, claiming exemptions, and issuing and obtaining orders. (A, CSU)

**17 ADMINISTRATIVE LAW/WORKERS' COMPENSATION****3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Introduction to basic concepts of administrative law and workers' compensation law. Emphasis placed on agency rulemaking, agency investigations, agency adjudications, judicial review, compensable injuries, temporary disability, permanent disability, and Worker's Compensation Appeals Board proceedings. (A, CSU)

**18 EMPLOYMENT LAW****3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

Overview of legal relationship between employer and employee. Emphasis placed on basic understanding of employment-related laws, and federal and state regulatory environment. Subjects covered include pre-employment concerns, legal aspects of the employer/employee relationship, discrimination issues and actions, terminations, and ethical issues in employment law. (A, CSU)

**19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL****1-8 units**

COREQUISITE: Fall and Spring Semesters. Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to paralegalism. Collaborative learning objectives established specific to a paralegal career. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

**20 CIVIL RIGHTS AND LIBERTIES****3 units, 3 lecture hours**

PREREQUISITE: Paralegal 1.

An overview of the constitutional interpretation of civil rights and liberties focusing on the Bill of Rights and landmark U.S. Supreme Court decisions in these areas. Emphasis placed on: speech, press, other forms of expressive conduct, obscenity, church/state relations, voting rights, various forms of discrimination, personal privacy, abortion, "right to die," freedom of association, etc. (A, CSU)

**156 LEGAL DOCUMENT PROCESSING****3 units, 2 lecture hours, 3 lab hours, (See also Business & Technology 140), (Formerly Paralegal 56)**

ADVISORY: Business &amp; Technology 1 or 28.

Producing and formatting business and legal correspondence and documents using a current word processing program. (A)

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**PHILOSOPHY (PHIL)**


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**1A THEORIES OF KNOWLEDGE AND REALITY****3 units, 3 lecture hours**

COREQUISITE: English 1A.

An introduction to philosophical thinking on the nature of knowledge, truth, and reality. (C-ID PHIL 100) (A, CSU-GE, UC, I)

**1AH HONORS THEORIES OF KNOWLEDGE AND REALITY****3 units, 3 lecture hours, (Formerly Honors 1P)**

COREQUISITE: English 1A. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

An introduction to philosophical thinking on the nature of knowledge, truth, and reality. Honors sections may also focus on an historical overview or a more in-depth study of a significant branch of philosophy e.g. philosophy of language or philosophy of mind. (C-ID PHIL 100) (A, CSU-GE, UC, I)

**1B SOCIAL AND POLITICAL PHILOSOPHY****3 units, 3 lecture hours**

COREQUISITE: English 1A.

An introduction to social and political philosophies; inquiry into views of human nature and human happiness, inquiry into the best form of society or government. (A, CSU-GE, UC, I)

**1C ETHICS****3 units, 3 lecture hours**

COREQUISITE: English 1A.

Reading and critical analysis of primary texts on moral theory. Examinations of ethical concepts such as good, evil, moral obligation. Conditions necessary to ethical decision-making, conscience, moral rules, justice, and free will. (C-ID PHIL 120) (A, CSU-GE, UC, I)

**1CH HONORS ETHICS****3 units, 3 lecture hours**

COREQUISITE: English 1A. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Reading and critical analysis of primary sources on moral theory. Examinations of ethical concepts such as good, evil, and moral obligation. Conditions necessary to ethical decision-making—conscience, moral rules, justice, and free will—may also be discussed. Honors sections may also involve a more in-depth study of a significant area of ethics or moral philosopher, and will require additional writing. (C-ID PHIL 120) (A, CSU-GE, UC, I)

**1D WORLD RELIGIONS****3 units, 3 lecture hours, (Formerly Philosophy 10)**

COREQUISITE: English 1A.

Basic beliefs and practices of Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam. (A, CSU-GE, UC, I)

**2 CRITICAL REASONING AND ANALYTIC WRITING****3 units, 3 lecture hours, (Formerly Philosophy 4)**

PREREQUISITE: English 1A.

Principles and methods of good reasoning, with an emphasis on deductive logic, including formal techniques of sentential logic. Includes the identification of arguments, developing and assessing basic deductive and inductive reasoning, common fallacies, and application of each element to various areas of study and real world situations. (C-ID ENGL 105) (A, CSU-GE, UC, I)

**2H HONORS CRITICAL REASONING AND ANALYTIC WRITING****3 units, 3 lecture hours**

PREREQUISITE: English 1A. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Principles and methods of good reasoning, with an emphasis on deductive logic, including formal techniques of sentential logic. Includes the identification of arguments, developing and assessing basic deductive and inductive reasoning, common fallacies, and application of each element to various areas of study and real world situations. Honors sections may also focus on an historical overview, or a more in-depth study of a significant branch of philosophy, e.g., environmental ethics or philosophy of race. (C-ID ENGL 105) (A, CSU-GE, UC, I)

**3A ANCIENT PHILOSOPHY****3 units, 3 lecture hours**

ADVISORY: English 1A.

An introduction to ancient philosophy with an emphasis on Greek thought from the Pre-Socratic philosophers to Aristotle. (C-ID PHIL 130) (A, CSU-GE, UC, I)

**3B MODERN PHILOSOPHY****3 units, 3 lecture hours**

ADVISORY: English 1A.

Addresses 16th through 18th century philosophy with emphasis on broad epistemological and/or metaphysical developments of empiricism and rationalism in philosophical thought from Descartes to Kant and may include approximate precursors and successors. (C-ID PHIL 140) (A, CSU-GE, UC, I)

**5 PHILOSOPHY OF RELIGION****3 units, 3 lecture hours**

COREQUISITE: English 1A.

The philosophical, critical, scrutiny of some of the issues arising from the monotheistic classical tradition. For example: the nature of God; the existence of God; experience of God; the relation between faith and reason; the problem of evil; free will; immortality. (A, CSU-GE, UC, I)

**6 INTRODUCTION TO LOGIC****3 units, 3 lecture hours**

ADVISORY: English 1A.

Introduction to methods of reasoning. Instruction in induction and deduction included, with an emphasis on deduction. Topics include formal and informal fallacies, as well as symbolization, syntax, and natural deduction for sentential and predicate logic. (C-ID PHIL 210) (A, CSU-GE, UC)

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**PHOTOGRAPHY (PHOTO)**


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**5 INTRODUCTION TO PHOTOGRAPHY****3 units, 3 lecture hours**

PREREQUISITE: None.

Non-lab beginning photography course introducing the basic principles, practices, and aesthetics of image making using digital or film cameras. Survey of photography's historical and contemporary role in our multicultural society. Emphasis on: using the camera, light, and visual language for expressing ideas photographically. Students must provide their own basic camera. (A, CSU-GE, UC)

**6 DIGITAL IMAGING FUNDAMENTALS****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: None.

Theories and practices of manually adjustable digital cameras; technical and creative use of manual camera controls and capture. Topics include: automatic vs. manual shooting modes, camera menus, exposure control, depth of field, motion control, basic flash, white balance, file formats, capture workflow, and camera care as well as the legal and ethical issues of photography. Image processing involving tonal range, organization and color adjustment using Adobe Lightroom. (A, CSU, UC)

**12 BEGINNING PHOTOSHOP****3 units, 2 lecture hours, 3 lab hours,  
(Formerly Photography 22)**

ADVISORY: Basic computer skills recommended.

Introduction to Photoshop including a variety of problem solving lessons and projects using: digital image capture, organization, basic tone and color adjustments, basic retouching, and printing techniques. (A, CSU, UC)

**14 PHOTOGRAPHY FOR SOCIAL MEDIA****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: None.

Photographic principals of creating images specifically intended for Social media publishing and use. Creation of creative visuals to meet specific client needs and online platform criteria. This course will also explore cultural and ethical implications for contemporary online publishing. (A, CSU)

**15 PHOTOGRAPHY AND VISUAL LITERACY****3 units, 3 lecture hours**

PREREQUISITE: None.

The nature and character of photography; its use for communication and expression. Visual literacy and photography as a universal language. How concept, design, and creation of the photographic image are utilized in our culture. (A, CSU, UC)

**17 CLASSIC BLACK AND WHITE PHOTOGRAPHY****3 units, 2 lecture hours, 3 lab hours,  
(Formerly Photography 10)**

ADVISORY: Photography 5.

Theories and practices of traditional 35mm and 4x5 Black and White film photography; technical and creative use of manual camera controls and accessories, film development, printing, print presentation techniques and legal and ethical aspects of photography. Projects emphasize aesthetics and photographic problem solving utilizing text and classroom information. (A, CSU, UC)

**18 ADVANCED BLACK AND WHITE PHOTOGRAPHY****3 units, 2 lecture hours, 3 lab hours,  
(Formerly Photography 20)**

PREREQUISITE: Photography 12 or equivalent. ADVISORY: Photography 17.

Interpreting reality through the many pathways to film and digital black and white photography. Adobe Photoshop and other software applications are used on a variety of projects. The course emphasizes the vision, language, and technique of black and white print. (A, CSU, UC)

**23 ADVANCED PHOTOSHOP****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Photography 12 or Graphic Communications 31 or equivalent.

Advanced techniques for computer enhanced still photograph image capture, processing, and output technologies. Use of Adobe Photoshop as primary software to complete real world assignments and produce a portfolio of digital photography. (A, CSU, UC)

**26 LIGHTING PRINCIPLES****3 units, 2 lecture hours, 3 lab hours,  
(Formerly Photography 24 and 35)**

PREREQUISITE: Photography 6 or equivalent. ADVISORY: Photography 12.

Photographic lighting qualities, characteristics, and styles. Using studio lighting techniques, tabletop still life subjects will be photographed to emphasize problem solving and personal expression. (A, CSU)



**32 COMMERCIAL PORTRAITURE****3 units, 2 lecture hours, 3 lab hours,  
(Formerly Photography 23 and 25)**

PREREQUISITE: Photography 6 or equivalent. ADVISORY: Photography 12.

Studio and environmental commercial portraiture. Emphasis on style and the psychology of body language, lighting, composition, and facial expression. Portrait subjects include: individuals, couples, groups, and weddings. (A, CSU)

**45 ADVANCED PROJECTS****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Photography 18, 23, 26, or 32.

Limited enrollment course open only to those students who have completed the prerequisite for their proposed project. Projects must emphasize advanced approaches not covered in the prerequisite courses. Students will research their topic and present their work and findings to the class. Independent study contract between instructor and student required. (A, CSU)

**49 MULTIMEDIA PHOTOJOURNALISM****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Photography 6.

This is an advanced visual journalism course that puts an emphasis on multimedia storytelling using different assets such as still, video, and web based media. The course will focus on re-imagining storytelling, teaching the student to use factual information as their inspiration to build stories. (A, CSU, UC)

**52 ADOBE LIGHTROOM****3 units, 2 lecture hours, 3 lab hours,  
(Formerly Graphic Communications 52)**

PREREQUISITE: None.

Digital image enhancement and management with Adobe Lightroom. Focus will be on non destructive photographic workflow and improvement to tonal quality. (A, CSU)

**57 APPLIED COLOR AND ALTERNATIVE  
PHOTOGRAPHIC MEDIA****3 units, 2 lecture hours, 3 lab hours**

PREREQUISITE: Graphic Communications 31 or Photography 12. ADVISORY: Photography 23.

Developing a personal vision by seeing and working with digital media using various media and methods for creating photographic images. Contemporary digital processes will be used and combined for representational and non-representational images. Color Theory and Color Management in the photographic medium and its relationship to alternative media. (A, CSU, UC)

**67 INTRO TO AERIAL MULTIMEDIA****0.5 unit, 1 lecture hour, 2 lab hours, (9  
weeks), (Formerly Photography 267)**

PREREQUISITE: Must have ability to use both hands on controller and be able to keep visual line of sight with drone. ADVISORY: Photography 6.

This course is an introduction to Aerial still and motion image capture. Both Photography and Video elements will be explored. Safety, regulations, industry applications, storytelling, and software output are part of the presented points of the coursework. (A, CSU)

**77 AERIAL MULTIMEDIA II****3 3 units, 2 lecture hours, 3 lab hours,  
(Formerly Photography 277)**

PREREQUISITE: Photography 67. Students must be able use both hands to operate and read data on the controller. Students must be able to visually see in flight drone as needed.

Intermediate uses of unmanned aerial vehicles for digital imaging. This hands-on course covers high resolution video capture, aerial imaging, intelligent mission planning, for image capture, editing, mapping and related uses. (A, CSU)

**320 SPECIAL EVENT PHOTOGRAPHY****1 lecture hour, 3 lab hours, (Retakes = 3)**

ADVISORY: Photography 6.

Still image and video course to introduce the process of planning, marketing and setup of image capture for a special event in community.

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**PHYSICAL EDUCATION (PE)**

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**GENERAL ACTIVITY COURSES**

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**3 ARCHERY****1 unit, 3 lab hours, (Formerly Physical  
Education ACT 14)**

ADVISORY: Eligibility for English 1A recommended.

Techniques of shooting, correct use of equipment, and safety procedures. Events include target archery, tournament rounds, and competitive shooting. (A, CSU, UC)

**4 BADMINTON****1 unit, 3 lab hours, (Formerly Physical  
Education ACT1)**

ADVISORY: Eligibility for English 1A recommended.

Strokes, rules, etiquette, and strategy. Singles and doubles game experience. (A, CSU, UC)

**4B INTERMEDIATE BADMINTON****1 unit, 3 lab hours**

PREREQUISITE: Physical Education 4.

An expanded approach to the fundamental badminton strokes and strategies obtained in beginning badminton. Students will build upon their knowledge of the game of badminton, and be able to successfully compete with peers of their skill level. (A, CSU-GE)

**5 BASKETBALL****1 unit, 3 lab hours, (Formerly Physical Education ACT 5A)**

ADVISORY: Eligibility for English 1A recommended.

Basic skills, rules, strategy, offense and defense. Tournaments according to skill level of students. (A, CSU, UC)

**6 FITNESS AND HEALTH****1 unit, 3 lab hours, (Formerly Physical Education ACT 15A)**

ADVISORY: Eligibility for English 1A recommended.

Class explores various activities to develop posture, strength, flexibility, endurance and relaxation. (A, CSU, UC)

**7 GOLF****1 unit, 3 lab hours, (Formerly Physical Education ACT 10)**

ADVISORY: Eligibility for English 1A recommended.

Grip, stance, and swing fundamentals. Instruction on the short game basics. Swing evaluation for each student. Instruction on golf etiquette, equipment and the rules of golf. (A, CSU, UC)

**8 BASIC SELF DEFENSE****1 unit, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Theory and techniques of self defense and personal safety. Mental and physical aspects of basic self defense. Content includes recognizing and avoiding dangers, and skills and strategies for employing physical defense when necessary. (A, CSU, UC)

**9 CIRCUIT TRAINING****1 unit, 3 lab hours, (Formerly Physical Education ACT 17A)**

ADVISORY: Eligibility for English 1A recommended.

Designed to test individuals, assign an exercise program and re-test to note progress. Emphasis on individual training. Use of weightlifting machines. (A, CSU, UC)

**12 SWIMMING****1 unit, 3 lab hours, (Formerly Physical Education ACT 16A)**

ADVISORY: Eligibility for English 1A recommended.

Techniques of swimming and conditioning for beginning and advanced swimmers. Stroke technique drills and conditioning workouts. (A, CSU, UC)

**12B INTERMEDIATE SWIMMING****1 unit, 3 lab hours**

PREREQUISITE: Physical Education 12.

Intermediate drills and conditioning workouts for experienced swimmers. (A, CSU-GE)

**13 TENNIS****1 unit, 3 lab hours, (Formerly Physical Education ACT 7)**

ADVISORY: Eligibility for English 1A recommended.

Strokes, rules, etiquette and game strategy for singles and doubles. (A, CSU, UC)

**13B INTERMEDIATE TENNIS****1 unit, 3 lab hours**

PREREQUISITE: Physical Education 13. Experience playing competitively at the high school junior varsity or varsity level may satisfy prerequisite. ADVISORY: Eligibility for English 1A recommended.

An expanded approach to the fundamental tennis strokes and strategies obtained in beginning tennis. Students will build upon their knowledge of the game of tennis, and be able to successfully compete with peers of their skill level. (A, CSU, UC)

**14 VOLLEYBALL****1 unit, 3 lab hours, (Formerly Physical Education ACT 5G)**

ADVISORY: Eligibility for English 1A recommended.

Basic skills, rules, strategy, offense and defense. Tournaments according to skill level of students. (A, CSU, UC)

**15A WEIGHT TRAINING (WOMEN)****1 unit, 3 lab hours, (Formerly Physical Education ACT 11B)**

ADVISORY: Eligibility for English 1A recommended.

Total body developed by exercising against resistance, utilizing a pre-determined circuit. Proper weight lifting techniques and safety practices are demonstrated and discussed. A special emphasis on the body building needs of women. (A, CSU, UC)

**15B WEIGHT TRAINING (MEN)**

**1 unit, 3 lab hours, (Formerly Physical Education ACT 11A)**

ADVISORY: Eligibility for English 1A recommended.

Total body developed by exercising against weighted resistance, and doing isotonic and circuit exercises. Use of weight lifting equipment. Safety methods of lifting and the use of equipment. Special emphasis on body building needs of men. (A, CSU, UC)

**15C WEIGHT TRAINING (COED)**

**1-2 units: 2 units, 6 lab hours; 1 unit, 3 lab hours, (Formerly Physical Education ACT 11C)**

ADVISORY: Eligibility for English 1A recommended.

Total body development by exercising against weighted resistance; isotonic and circuit exercises. Class is structured to satisfy the body building needs of both men and women as they participate in the same environment. Use of weight lifting equipment. Safe methods of lifting and the use of equipment. (A, CSU, UC)

**17 HATHA YOGA**

**1 unit, 3 lab hours, (Formerly Physical Education ACT 28)**

ADVISORY: Eligibility for English 1A recommended.

Fundamental exercises for flexibility, strength, relaxation, and improvement of concentration drawn largely from the Hatha Yoga tradition. (A, CSU, UC)

**27 HIGH-INTENSITY CARDIO INTERVAL TRAINING**

**1 unit, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Designed to improve cardiovascular fitness by running pre-determined intervals on a regulation running track. The intervals will vary from 50 - 200 meters. (A, CSU, UC)

**70 FITNESS AEROBICS**

**1 unit, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Designed to provide a total body workout that develops aerobic endurance, increases range of motion and muscular strength, and improves flexibility. (A, CSU, UC)

**71 SOCCER**

**1 unit, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Basic skills, rules, strategy, offense and defense. Tournaments according to skill level of students. (A, CSU, UC)

**72 SPINNING FOR FITNESS**

**1 unit, 3 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Designed to improve overall physical fitness and health through the use of stationary spin bikes. Proper spin techniques and safety practices are demonstrated. Suitable for all genders and fitness levels. (A, CSU, UC)

**PREPROFESSIONAL COURSES****18A SPORTS MEDICINE LAB A**

**2 units, 6 lab hours, (Formerly Physical Education 19)**

PREREQUISITE: None.

Supervised employment extending the classroom based on occupational learning related to Physical Education and Sports Medicine. Collaborative learning objectives established specific to the particular occupational field. One hundred (100) hours per semester. Orientation hours may be required. (A, CSU)

**18B SPORTS MEDICINE LAB B**

**2 units, 6 lab hours**

ADVISORY: Eligibility for English 1A recommended.

Supervised employment extending the classroom based on occupational learning related to Physical Education and Sports Medicine. Collaborative learning objectives established specific to the particular occupational field. One hundred (100) hours of lab per semester. Orientation hours may be required. (A, CSU)

**20 CARE AND PREVENTION IN ATHLETIC POPULATIONS**

**4 units, 3 lecture hours, 3 lab hours, (Formerly Physical Education PRE 32)**

PREREQUISITE: None.

Treating, prevention, and evaluating athletic injuries. Emergency first aid. (A, CSU, UC)

**24 SPORTS OFFICIATING**

**2 units, 2 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Understanding and interpreting the rules and mechanics of officiating one or more of the following activities: baseball, basketball, football, flag football, soccer, softball, track and volleyball. (A, CSU, UC)

**26 SPORTS PSYCHOLOGY**

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

The study and application of psychological principles and foundations to sport and exercise. Promote concepts and applied principles of sport and exercise psychology. (A, CSU, UC)

**28 FOUNDATIONS OF COACHING****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Introduction to the profession of athletic coaching. Theories and practices that provide the foundation to coaching. Includes coaching philosophies, communication skills, motivational techniques, principles for training, and program management. (A, CSU, UC)

**62 INTRODUCTION TO KINESIOLOGY****3 units, 3 lecture hours, (Formerly Physical Education 22 and Physical Education PRE 35)**

ADVISORY: Eligibility for English 1A recommended.

Nature and scope of physical education and its sub-disciplines. Historical background, philosophy, curriculum, current problems, issues, and career options. (C-ID KIN 100) (A, CSU, UC)

**INTERCOLLEGIATE ACTIVITY COURSES**

*Medical clearance resulting from a physical examination by the college's team physician is required prior to a student's first enrollment in any intercollegiate activity course.*

**29B COMPETITIVE BADMINTON****3 units, 9.5 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**29C OFF-SEASON CONDITIONING FOR BADMINTON****1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for badminton players. (A, CSU, UC)

**30B COMPETITIVE BASEBALL****3 units, 9.5 lab hours, (Spring), (Repeats = 2), (Formerly Physical Education INT 41)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**30C OFF-SEASON CONDITIONING FOR BASEBALL****1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for baseball players. (A, CSU, UC)

**31B COMPETITIVE BASKETBALL****3 units, 9.5 lab hours, (Fall and Spring), (Repeats = 2), (Formerly Physical Education INT 40)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**31C OFF-SEASON CONDITIONING FOR BASKETBALL****1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for basketball players. (A, CSU, UC)

**32B COMPETITIVE CROSS COUNTRY****3 units, 9.5 lab hours, (Fall), (Repeats = 2), (Formerly Physical Education INT 48)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**33B COMPETITIVE FOOTBALL****3 units, 9.5 lab hours, (Fall), (Repeats = 2), (Formerly Physical Education INT 42)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**33C OFF-SEASON CONDITIONING FOR FOOTBALL****1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for football players. (A, CSU, UC)

**34B COMPETITIVE GOLF****3 units, 9.5 lab hours, (Repeats = 2), (Formerly Physical Education INT 46)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**34C OFF-SEASON CONDITIONING FOR GOLF****1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for golfers. (A, CSU, UC)

**35B CHEER AND STUNT****2 units, 6 lab hours, (Repeats = 3), (Formerly Physical Education PRE 38)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to participate in cheer and stunt on the college level. Prospective participants should confer with the instructor before enrollment. (A, CSU, UC)

**36B COMPETITIVE SOCCER****3 units, 9.5 lab hours, (Fall), (Repeats = 2), (Formerly Physical Education INT 39)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**36C OFF-SEASON CONDITIONING FOR SOCCER****1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for soccer players. (A, CSU, UC)

**37B COMPETITIVE SOFTBALL****3 units, 9.5 lab hours, (Spring), (Repeats = 2), (Formerly Physical Education INT 36)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**37C OFF-SEASON CONDITIONING FOR SOFTBALL****1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for softball players. (A, CSU, UC)

**38B COMPETITIVE TENNIS****3 units, 9.5 lab hours, (Spring), (Repeats = 2), (Formerly Physical Education INT 44)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**38C OFF-SEASON CONDITIONING FOR TENNIS****1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for tennis players. (A, CSU, UC)

**39B COMPETITIVE TRACK AND FIELD****3 units, 9.5 lab hours, (Spring), (Repeats = 2), (Formerly Physical Education INT 43)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment.

**39C OFF-SEASON CONDITIONING FOR TRACK AND FIELD****1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for track and field team members. (A, CSU, UC)

**40B COMPETITIVE VOLLEYBALL**

**3 units, 9.5 lab hours, (Fall), (Repeats = 2),  
(Formerly Physical Education INT 37)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**40C OFF-SEASON CONDITIONING FOR VOLLEYBALL**

**1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for volleyball players. (A, CSU, UC)

**41B COMPETITIVE MEN'S WRESTLING**

**3 units, 9.5 lab hours, (Fall), (Repeats = 2),  
(Formerly Physical Education INT 45)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**41C OFF-SEASON CONDITIONING FOR MEN'S WRESTLING**

**1 unit, 3 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for Men's wrestling. (A, CSU-GE, UC)

**42B COMPETITIVE WATER POLO**

**3 units, 9.5 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

**42C OFF-SEASON CONDITIONING FOR WATER POLO**

**1 unit, 3 lab hours, (Repeats =2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for water polo players. (A, CSU, UC)

**43B COMPETITIVE SWIMMING AND DIVING**

**3 units, 9.5 lab hours, (Repeats = 2)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU)

**43C OFF-SEASON CONDITIONING FOR SWIMMING & DIVING**

**1 unit, 3 lab hours, (Repeats =2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for swimmers and divers. (A, CSU, UC)

**44B COMPETITIVE SAND VOLLEYBALL**

**3 units, 9.5 lab hours, (Repeats =2)**

ADVISORY: Eligibility for English 1A recommended.

Designed primarily for students possessing the desire, ability and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of each sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU-GE)

**44C OFF-SEASON CONDITIONING FOR SAND VOLLEYBALL**

**1 unit, 3 lab hours, (Repeats =2)**

ADVISORY: Eligibility for English 1A recommended.

Off-season conditioning activities for sand volleyball players. (A, CSU-GE, UC)

**45 PERFORMANCE TRAINING AND CONDITIONING TECHNIQUES FOR INTERCOLLEGIATE ATHLETICS**

**0.5-2 units, 2-6 lab hours, (Repeats = 3)**

ADVISORY: Eligibility for English 1A recommended.

Resistance training for intercollegiate athletics. (A, CSU, UC)

**46B COMPETITIVE WOMEN'S WRESTLING****3 units, 9.5 lab hours, (Repeats = 2)**

PREREQUISITE: None.

Designed primarily for students possessing the desire, ability and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of each sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU-GE, UC)

**46C OFF-SEASON CONDITIONING FOR WOMEN'S WRESTLING****1 unit, 3 lab hours, (Repeats = 2)**

PREREQUISITE: None.

Off-season conditioning activities for Women Wrestlers. (A, CSU-GE, UC)

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**PHYSICAL SCIENCE (PHYSC)**

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**11 INTRODUCTORY PHYSICAL SCIENCE****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended. Mathematics 201 recommended.

Emphasis on a survey of physics, chemistry, and earth science, including mechanics, thermodynamics, electricity and magnetism, optics, modern physics, nuclear physics, chemical systems, chemical reactions, geologic time, weather phenomena, astronomy, and cosmology. Designed primarily for non-science majors. (A, CSU-GE, UC, I)

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**PHYSICS (PHYS)**

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**2A GENERAL PHYSICS 1****4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Mathematics 4A. ADVISORY: Eligibility for English 1A recommended.

Mechanics, thermal physics, oscillations, and waves. Designed primarily for life science and related majors. (C-ID PHYS 105 and PHYS 100S = PHYS 2A + 2B) (A, CSU-GE, UC, I)

**2B GENERAL PHYSICS 2****4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Physics 2A.

Electricity and magnetism, optics, and introduction to modern physics. Designed primarily for life science and related majors. (C-ID PHYS 110 and PHYS 100S = PHYS 2A + 2B) (A, CSU-GE, UC, I)

**4A PHYSICS FOR SCIENTISTS AND ENGINEERS****4 units, 3 lecture hours, 3 lab hours**

COREQUISITE: Mathematics 5B. ADVISORY: Eligibility for English 1A recommended.

Classical mechanics: kinematics, Newton's Laws, energy, momentum, gravitation, and fluids. Designed primarily for physics, engineering, and related majors. (C-ID PHYS 205 and PHYS 200S = PHYS 4A + 4B + 4C) (A, CSU-GE, UC, I)

**4B PHYSICS FOR SCIENTISTS AND ENGINEERS****4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Physics 4A. COREQUISITE: Mathematics 5B. ADVISORY: Mathematics 6.

Electricity and magnetism: electrostatics, electric potential, DC circuits, magnetic fields, induction, and AC circuits. Designed primarily for physics, engineering, and related majors. (C-ID PHYS 210 and 200S = PHYS 4A + 4B + 4C) (A, CSU-GE, UC, I)

**4C PHYSICS FOR SCIENTISTS AND ENGINEERS****4 units, 3 lecture hours, 3 lab hours**

PREREQUISITE: Physics 4A. COREQUISITE: Mathematics 5B. ADVISORY: Mathematics 6.

Oscillations, waves, thermodynamics, optics, relativity, quantum mechanics, and nuclear physics. Designed primarily for physics, engineering, and related majors. (C-ID PHYS 215 and 200S = PHYS 4A + 4B + 4C) (A, CSU-GE, UC, I)

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**POLITICAL SCIENCE (POLSCI)**

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**1 MODERN POLITICS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A.

An introduction to political science, designed to familiarize students with basic political concepts, ideologies, systems, and discipline subfields. (C-ID POLS 150) (A, CSU-GE, UC, I)

**2 AMERICAN GOVERNMENT****3 units, 3 lecture hours**

PREREQUISITE: Eligibility for English 1A. ADVISORY: English

1A.

Analysis of political and judicial institutions and processes, political ideology, political economy, civil rights, California state and local government. Satisfies the U.S. Constitution requirements and the national state and local government requirements for transfer students. (C-ID POLS 110) (A, CSU-GE, UC, I)

**2H HONORS AMERICAN GOVERNMENT****3 units, 3 lecture hours**

PREREQUISITE: Eligibility for English 1A. ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Analysis of political and judicial institutions and processes, political ideology, political economy, the role of the media, civil rights, California state and local government. Satisfies the U.S. Constitution requirements and the national, state and local government requirements for transfer students. In addition Honors sections investigate in detail the original design of the American political system, including the values imbued in the Constitution, the construction of the federal system, and the legal responsibilities of the major actors, and contrast those features with the current conditions in American politics. Emphasis is given to explaining the differences between the two situations, and requiring students to suggest how access to the present system can be gained and used. (C-ID POLS 110) (A, CSU-GE, UC, I)

**3 INTRODUCTION TO POLITICAL THEORY AND THOUGHT****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A.

Examination of various theoretical approaches to politics and of basic political problems and proposed solutions. Analysis of selected political theories and of the relevance of theory to contemporary problems. (C-ID POLS 120) (A, CSU-GE, UC, I)

**5 COMPARATIVE GOVERNMENT****3 units, 3 lecture hours**

ADVISORY: Political Science 2 and eligibility for English 1A, and Mathematics 260D.

Comparative analysis of different kinds of political systems; their history, political institutions, processes and policies; the environments in which they occur and their consequences. (C-ID POLS 130) (A, CSU-GE, UC, I)

**6 CALIFORNIA POLITICS AND GOVERNMENT****1 unit, 1 lecture hour**

PREREQUISITE: None.

Analysis of the executive, judicial, legislative and local government structures and processes of California Government. (A, CSU-GE, UC)

**13 LEGAL AND JUDICIAL REASONING****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Statutory, common law and constitutional interpretation; examination of judicial and legal reasoning and the evolution of fundamental constitutional rights and principles. (A, CSU-GE, UC)

**24 INTERNATIONAL RELATIONS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

How nations manage their relations with other nations; their perceptions of themselves and of each other; their use of power to achieve their objectives. Issues facing the U.S. and the world community. (C-ID POLS 140) (A, CSU-GE, UC, I)

**25 MODEL UNITED NATIONS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Preparation for simulated United Nations conferences. Focus on international diplomacy through study of member countries and their national policies. Practice on speech, debate, negotiation, and writing techniques. Students will be expected to attend at least two Model United Nations conferences during the semester. (A, CSU)

**110 AMERICAN INSTITUTIONS****3 units, 3 lecture hours, (Formerly Political Science 10)**

ADVISORY: Eligibility for English 125 and 126.

Current problems of American and California government. Federal, state and local institutions. Does not satisfy the U.S. Constitution and California state and local requirements for a BA degree under Section 40404. Satisfies Fresno City College graduation requirement. (A)

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**PRINTING TECHNOLOGY (PT)**

SEE GRAPHIC COMMUNICATIONS

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**PSYCHOLOGY (PSY)**

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**2 GENERAL PSYCHOLOGY****3 units, 3 lecture hours, (Formerly Psychology 7)**

ADVISORY: English 1A.

Scientific study of behavior and mental processes. Topics include history of psychology, research methods, biopsychology, lifespan development, sensation and perception, consciousness and altered states, learning and memory, thought and language, intelligence, motivation and emotion, personality, mental illness and therapy, stress and health, social psychology, and the social and cultural influences that affect behavior. (C-ID PSY 110) (A, CSU-GE, UC, I)



**2H HONORS GENERAL PSYCHOLOGY****3 units, 3 lecture hours, (Formerly Honors 7P and Psychology 7H)**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in college catalog.

Scientific study of behavior and mental processes. Topics include history of psychology, research methods, biopsychology, lifespan development, sensation and perception, consciousness and altered states, learning and memory, thought and language, intelligence, motivation and emotion, personality, mental illness and therapy, stress and health, social psychology, and the social and cultural influences that affect behavior. The Honors section of this course places a greater emphasis on understanding the human being as an integrated physiological, social, and psychological organism and further enriches that perspective with data and theories from related disciplines. (C-ID PSY 110) (A, CSU-GE, UC, I)

**5 SOCIAL PSYCHOLOGY****3 units, 3 lecture hours**

ADVISORY: English 1A and Psychology 2.

Systematic analysis of the social factors that influence human behavior and mental processes, including culture and gender. Focus on the mutual influence between the individual and the social environment. Emphasized topics include research methods and ethical principles, the self, social perception, social cognition, attitudes, persuasion, conformity and obedience, attraction and relationships, prosocial behavior, aggression, prejudice and discrimination, group phenomena, norms, and social neuroscience. (C-ID PSY 170) (A, CSU, UC)

**12 CHILD ABUSE****3 units, 3 lecture hours, (See also Child Development 12)**

ADVISORY: English 1A.

Issues related to abused, battered, and neglected children including issues related to child sexual molestation and pornography. Characteristics of different types of abusers, pedophiles, and adolescent molesters. Reporting laws and the legal process. Identification, prevention, and treatment of abused children and abusers. (A, CSU)

**16 ABNORMAL PSYCHOLOGY****3 units, 3 lecture hours**

ADVISORY: Psychology 2 and English 1A.

Psychological, sociocultural, and biological bases of abnormal behavior. Definitions of abnormality; current models of etiology, classification, therapy, and prevention; critical analysis of research techniques and findings. (C-ID PSY 120) (A, CSU, UC)

**18 THE PSYCHOLOGY OF CRIMINAL BEHAVIOR****3 units, 3 lecture hours, (See also Criminology 18)**

ADVISORY: English 1A.

Focus on the biological, psychological, developmental, social and cultural factors that influence the development of criminal behavior. Understand the relationship between psychological disorders outlined in the current Diagnostic and Statistical Manual of Mental Disorders, as well as psychopathy and sociopathy, and their influence on the development of criminal behavior. Explore the relationship between social inequities and the criminal justice system. Discuss the extent to which therapy and/or rehabilitation affects recidivism rates. (A, CSU)

**25 HUMAN SEXUALITY****3 units, 3 lecture hours**

ADVISORY: English 1A.

Explores human sexual behaviors and values in contemporary society from a biological, psychological, social, cultural, historical and lifespan perspective. Topics include research methods, sexual anatomy and physiology of males and females, gender development and socialization, contraception and abortion, conception and prenatal development, sexual orientation, love, communication and relationships, sexual patterns and techniques, sexual dysfunctions, sexually transmitted diseases, the causes and consequences of sexual victimization, atypical sexual behavior and the commercialization of sex presented in an explicit and scientific manner. (C-ID PSY 130) (A, CSU-GE, UC)

**33 PERSONAL AND SOCIAL ADJUSTMENT****3 units, 3 lecture hours**

ADVISORY: English 1A.

Provides a foundation of knowledge about psychological principles and concepts important to personal and social adjustment. Topics include personality, lifespan development, psychological factors that affect physical health and illness, the effects of stress, stress management, gender roles, interpersonal relationships, sexuality, work and leisure, psychological disorders, and therapy. Topics are explored with an emphasis on both theory and practical application in everyday life. (C-ID PSY 115) (A, CSU-GE, UC)

**36 BIOLOGICAL PSYCHOLOGY****3 units, 3 lecture hours**

PREREQUISITE: Psychology 2. ADVISORY: Biology 3, Biology 5, and English 1A.

Biological mechanisms central to fundamental concepts and issues of psychology. Topics include basic neuroanatomy, neurophysiology, and genetics; research methods in biological psychology; the physiological mechanisms underlying sensation, perception, consciousness, sleep, emotion, stress, sexual behavior, hunger, eating, language, learning, memory, neurological disorders, psychopharmacology, and psychological disorders; and the influence of environmental and psychological factors on biology. (C-ID PSY 150) (A, CSU, UC)

**38 LIFESPAN DEVELOPMENT**

**3 units, 3 lecture hours, (See also Child Development 38)**

ADVISORY: English 1A.

Basic theories, research concepts, and principles of typical and atypical physical, cognitive and psychosocial development at each major stage of life from conception to death. All major topics of human development (e.g. human behavior, sexuality, nutrition, health, stress, key relationships of humankind to the social and physical environment, and implications of death and dying) presented in an integrated manner. (C-ID PSY 180) (A, CSU-GE, UC, I)

**39 CHILD GROWTH AND DEVELOPMENT**

**3 units, 3 lecture hours, 1 lab hour, (See also Child Development 39)**

ADVISORY: English 1A. Verification of freedom from tuberculosis. Optional verification of immunization against influenza.

Examines the major physical, cognitive, social and emotional developmental milestones for children from conception through adolescence. Emphasis on interactions between maturational processes and environmental factors. Students will observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories. The "To Be Arranged" hours may include observation and documentation of children at various stages of development. (C-ID CDEV 100) (A, CSU-GE, UC, I)

**42 STATISTICS FOR THE BEHAVIORAL SCIENCES**

**4 units, 4 lecture hours, (See also Mathematics 42)**

PREREQUISITE: Mathematics 103 or placement by multiple measures.

Topics include descriptive statistics, sampling, hypothesis testing, estimation, selected non-parametric techniques, ANOVA, and regression, with applications from psychology, biology, and social sciences. This course is designed for psychology majors and UC transfers. (A, CSU-GE, UC, I)

**45 INTRODUCTION TO RESEARCH METHODS IN PSYCHOLOGY**

**3 units, 3 lecture hours**

PREREQUISITE: Psychology 2 and Psychology 42 or Mathematics 42 or Mathematics 11. ADVISORY: English 1A.

Survey of psychological research methods. Emphasis placed on research design, descriptive techniques, experimental procedures, and the characteristics of valid assessment tools. Research design and methodology will be examined through a review of research in a variety of the subdisciplines of psychology. Focus on the collection, analysis, interpretation, and reporting of research data. Cultural considerations and the ethics of research with humans and animals included. Designed for psychology majors and others who require familiarity with such research techniques. (C-ID PSY 200) (A, CSU, UC)

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**RADIOLOGIC TECHNOLOGY (RAD)**


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**1A FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY**

**6 units, 6 lecture hours**

PREREQUISITE: Admission to the Radiologic Technology Program. Health Information Technology 10, Biology 20 and 22 or Biology 21A and 21B. COREQUISITE: Radiologic Technology 1B, 1C, and 1D. ADVISORY: English 1A and Mathematics 201.

Radiography and its relation to radiology and the hospital; X-ray production, radiographic quality, medical ethics, and use of X-ray equipment. (A, CSU)

**1B BASIC RADIOGRAPHIC POSITIONING LABORATORY**

**1 unit, 3 lab hours**

PREREQUISITE: Admission to the Radiologic Technology Program. Health Information Technology 10, Biology 20 and 22 or Biology 21A and 21B. COREQUISITE: Radiologic Technology 1A, 1C, and 1D. ADVISORY: English 1A and Mathematics 201.

Demonstration and practice in positioning of the chest, abdomen, upper and lower extremities, and shoulder girdle. (A, CSU)

**1C CLINICAL ORIENTATION LABORATORY**

**3 units, 9 lab hours, (Formerly Radiologic Technology 3A)**

PREREQUISITE: Admission to the Radiologic Technology Program. Health Information Technology 10, Biology 20 and 22 or Biology 21A and 21B. COREQUISITE: Radiologic Technology 1A, 1B, and 1D. ADVISORY: English 1A and Mathematics 201.

Practice of the applicable rules and regulations of the clinical facility. Assist with basic radiographic procedures. (A, CSU)

**1D NURSING PROCEDURES IN RADIOLOGIC TECHNOLOGY****3 units, 3 lecture hours**

PREREQUISITE: Admission to the Radiologic Technology Program. Health Information Technology 10, Biology 20 and 22 or Biology 21A and 21B. COREQUISITE: Radiologic Technology 1A, 1B, and 1C. ADVISORY: English 1A and Mathematics 201.

Procedures and methods pertaining to X-ray, emergency patients, and surgical procedures. (A, CSU)

**2A RADIATION BIOLOGY****6 units, 6 lecture hours**

PREREQUISITE: Radiologic Technology 1A, 1B, 1C and 1D. COREQUISITE: Radiologic Technology 2B, 2C, and 2D.

Biological effects of radiation, protection standards, personnel monitoring, and concepts of radiation units. (A, CSU)

**2B ADVANCED RADIOGRAPHIC POSITIONING LABORATORY****1 unit, 3 lab hours**

PREREQUISITE: Radiologic Technology 1A, 1B, 1C and 1D. COREQUISITE: Radiologic Technology 2A, 2C, and 2D.

Demonstration and practice in positioning of the pelvis and upper femora, vertebral column, bony thorax, digestive system, gallbladder, biliary ducts, urinary system and mammography. (A, CSU)

**2C CLINICAL OBSERVATION LABORATORY****3 units, 9 lab hours**

PREREQUISITE: Radiologic Technology 1A, 1B, and 1D. COREQUISITE: Radiologic Technology 2A, 2B, and 2D.

Practice of the applicable rules and regulations of the clinical facility. Under direct supervision, perform basic radiographic procedures. (A, CSU)

**2D QUALITY ASSURANCE IN RADIOLOGIC TECHNOLOGY****1 unit, 3 lab hours**

PREREQUISITE: Radiologic Technology 1A, 1B, 1C, and 1D. COREQUISITE: Radiologic Technology 2A, 2B, and 2C.

Evaluation of radiographic systems to assure consistency in the production of quality images. (A, CSU)

**3 BASIC CLINICAL RADIOLOGIC TECHNOLOGY****8 units, 24.45 lab hours, (Summer only), (Formerly Radiologic Technology 3B)**

PREREQUISITE: Radiologic Technology 2A, 2B, 2C, and 2D.

Basic radiographic positioning and fluoroscopy. Supervised clinical experience in local hospital radiology departments. (A, CSU)

**4A PATHOLOGY IN RADIOLOGIC TECHNOLOGY****2 units, 2 lecture hours**

PREREQUISITE: Radiologic Technology 3. COREQUISITE: Radiologic Technology 4B and 4C.

Abnormal conditions of patients that preclude routine radiography; pathological conditions that need recognition and special treatment by radiologic technologists. (A, CSU)

**4B ADVANCED CLINICAL RADIOLOGIC TECHNOLOGY****12 units, 36 lab hours**

PREREQUISITE: Radiologic Technology 3. COREQUISITE: Radiologic Technology 4A and 4C.

Advanced radiographic exposure and positioning; procedures in medical-surgical conditions. (A, CSU)

**4C ADVANCED RADIOGRAPHIC POSITIONING LABORATORY-CRANIUM****1 unit, 3 lab hours**

PREREQUISITE: Radiologic Technology 3. COREQUISITE: Radiologic Technology 4A and 4B.

Demonstration and practice in positioning of the skull, facial bones, nasal bones, zygomatic arches, mandible, paranasal sinuses and temporal bones for radiographic examination. (A, CSU)

**5A SPECIAL PROCEDURES IN RADIOLOGIC TECHNOLOGY****2 units, 2 lecture hours**

PREREQUISITE: Radiologic Technology 4A, 4B, and 4C. COREQUISITE: Radiologic Technology 5B and 5C.

Special procedures for diagnostic purposes and equipment maintenance. (A, CSU)

**5B SPECIALIZED CLINICAL RADIOLOGIC TECHNOLOGY****12 units, 36 lab hours**

PREREQUISITE: Radiologic Technology 4A, 4B, and 4C. COREQUISITE: Radiologic Technology 5A and 5C.

Special procedures for diagnostic purposes; exposure to new imaging modalities. (A, CSU)

**5C FLUOROSCOPY****2 units, 2 lecture hours, 1 lab hour**

PREREQUISITE: Radiologic Technology 4A, 4B, and 4C. COREQUISITE: Radiologic Technology 5A and 5B.

Fluoroscopy techniques including positioning the patient, selecting exposure factors and positioning fluoroscopy equipment. (A, CSU)

- 6 CONCENTRATED CLINICAL RADIOLOGIC TECHNOLOGY**  
**4 units, 13 lab hours**  
 PREREQUISITE: Radiologic Technology 5A, 5B, and 5C.  
 Concentrated clinical experience to develop proficiency in all aspects of diagnostic radiography. (A, CSU)

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## REAL ESTATE (RE)

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*Certain real estate courses offered by the college presently meet the course requirements imposed by the California Department of Real Estate in order to take the real estate salesperson and/or broker examination. However, these courses are not intended as licensing test preparation courses. The course requirements applicable to these examinations may be viewed at the California Department of Real Estate website [www.dre.ca.gov](http://www.dre.ca.gov).*

- 40 REAL ESTATE PRINCIPLES**  
**3 units, 3 lecture hours, (Formerly Real Estate 50)**  
 ADVISORY: Eligibility for English 1A recommended.  
 California real estate history, real property descriptions, public and private restriction terminology, agency and contracts, forms, licensure, and careers in real estate. (A, CSU)
- 41 REAL ESTATE PRACTICE**  
**3 units, 3 lecture hours, (Formerly Real Estate 51)**  
 PREREQUISITE: Real Estate 40 or hold a license as a real estate salesperson or broker in California.  
 Day-to-day operations affecting brokers and sales persons, listings, advertising and marketing techniques. (A, CSU)

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## RECREATION (REC)

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- 19 WORK EXPERIENCE (COOPERATIVE), OCCUPATIONAL**  
**1-8 units**  
 COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.  
 Supervised employment extending the classroom based on occupational learning related to recreation. Collaborative learning objectives established specific to recreation. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester. Maximum 16 units total. Orientation hours may be required. (A, CSU)

- 20 INTRODUCTION TO RECREATION**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Educational opportunities; federal, state, and local relationships; planning programs; finance, and leadership. (A, CSU)

- 21 RECREATION LEADERSHIP**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Theoretical and philosophical basis for leadership. Social dynamics of participation in recreation activities. (A, CSU)

- 23 OUTDOOR RECREATION**  
**3 units, 2 lecture hours, 3 lab hours**  
 COREQUISITE: Recreation 20.  
 History, development, principles and trends of organized camping, nature and conservation, and outdoor recreation. Laboratory and field trips, including camping and hiking activities. Practical skills in firecrafts, outdoor cooking, and backpacking. Leadership training in camp counseling. Required for recreation majors. (A, CSU)

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## RESPIRATORY CARE PRACTITIONER (RCARE)

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- 15 INTRODUCTION TO RESPIRATORY CARE PROFESSION**  
**1 unit, 1 lecture hour**  
 PREREQUISITE: Acceptance into the Respiratory Care Program.  
 COREQUISITE: Respiratory Care 16, 16C, 17, and 20.  
 Respiratory Care Practitioner profession as it relates to evidence based practices, ethical and legal mandates, forms of communication, documentation, and information technology. (A, CSU)
- 16 PATIENT ASSESSMENT**  
**3 units, 3 lecture hours**  
 PREREQUISITE: Acceptance into the Respiratory Care Program.  
 COREQUISITE: Respiratory Care 15, 16C, 17, and 20. ADVISORY: English 1A.  
 Introduction to basic cardiopulmonary assessment of patients with acute and chronic medical conditions. (A, CSU)
- 16B DIAGNOSTIC METHODS**  
**3 units, 3 lecture hours**  
 PREREQUISITE: Respiratory Care 15, 16, 16C, 17, and 20.  
 COREQUISITE: Respiratory Care 18, 21, 21C, and 26.  
 Diagnostic tools and techniques to obtain quantitative information for patient assessment. (A, CSU)

**16C CLINICAL APPLICATIONS I****1 unit, 4 lab hours**

PREREQUISITE: Acceptance into the Respiratory Care Practitioner Program. COREQUISITE: Respiratory Care 15, 16, 17, and 20.

Supervised assessment and treatment of cardiopulmonary patients in the acute care setting and simulation lab. (A, CSU)

**17 RESPIRATORY CARE PHARMACOLOGY****3 units, 3 lecture hours**

COREQUISITE: Respiratory Care 15, 16, 16C, and 20. ADVISORY: English 1A.

Concepts and principles of pharmacology agents required in the practice of respiratory care including medications, dosages, route of administration, delivery devices, therapeutic efficacy, and adverse reactions. (A, CSU)

**18 PHYSIOLOGY OF THE RESPIRATORY SYSTEM****3 units, 3 lecture hours**

PREREQUISITE: Respiratory Care 15, 16, 16C, 17, and 20. COREQUISITE: Respiratory Care 16B, 21, 21C, and 26.

Physiological principles of the cardiopulmonary system including: gas diffusion, transport of oxygen and carbon dioxide, mechanics and neural control of ventilation, pulmonary blood flow and perfusion, and acid-base regulation. (A, CSU)

**20 INTRODUCTION TO RESPIRATORY CARE MODALITIES****4 units, 4 lecture hours**

PREREQUISITE: Acceptance into the Respiratory Care Practitioner Program. COREQUISITE: Respiratory Care 15, 16, 16C, and 17. ADVISORY: English 1A.

Selected modalities for respiratory care with the physical, mechanical, and scientific principles associated with all attendant equipment. (A, CSU)

**21 APPLICATIONS AND PROCEDURES IN RESPIRATORY CARE****3 units, 3 lecture hours**

PREREQUISITE: Respiratory Care 15, 16, 16C, 17, and 20. COREQUISITE: Respiratory Care 16B, 18, 21C, and 26.

Selected therapeutic and diagnostic modalities for respiratory care, with the physical, mechanical and scientific principles associated with all attendant equipment. (A, CSU)

**21B CLINICAL APPLICATIONS III****6 units, 19 lab hours**

PREREQUISITE: Respiratory Care 18, 21, 21C, and 26. COREQUISITE: Respiratory Care 22, 24, and 25.

Supervised assessment and treatment of cardiopulmonary patients in acute care, sub-acute, and other specialty areas. Simulation lab. (A, CSU)

**21C CLINICAL APPLICATIONS II****1 unit, 4 lab hours**

PREREQUISITE: Respiratory Care 15, 16, 16C, 17, and 20. COREQUISITE: Respiratory Care 16B, 18, 21, and 26.

Supervised assessment and treatment of cardiopulmonary patients in the acute care setting and simulation lab. (A, CSU)

**22 INTRODUCTION TO MECHANICAL VENTILATION****2 units, 2 lecture hours**

PREREQUISITE: Respiratory Care 16B, 18, 21, 21C, and 26. COREQUISITE: Respiratory Care 21B, 24, and 25.

Introduction to initiation and management of mechanical ventilation. (A, CSU)

**23 MECHANICAL VENTILATION MANAGEMENT****2 units, 2 lecture hours**

PREREQUISITE: Respiratory Care 21B, 22, 24, and 25. COREQUISITE: Respiratory Care 23B, 24B, 25B, and 27.

Management of the complex mechanically ventilated patient. (A, CSU)

**23B MECHANICAL VENTILATION MANAGEMENT****2 units, 2 lecture hours**

PREREQUISITE: Respiratory Care 21B, 22, 24, and 25. COREQUISITE: Respiratory Care 23B, 24B, 25B, and 27.

Management of the complex mechanically ventilated patient. (A, CSU)

**24 NEONATAL DISEASES****2 units, 2 lecture hours**

PREREQUISITE: Respiratory Care 16B, 18, 21, 21C, and 26. COREQUISITE: Respiratory Care 21B, 22, and 25.

Pathology, etiology, and management of neonatal diseases and disorders, including normal and abnormal fetal development. (A, CSU)

**24B PEDIATRIC DISEASES****2 units, 2 lecture hours**

PREREQUISITE: Respiratory Care 21B, 22, 24, and 25. COREQUISITE: Respiratory Care 23, 23B, 25B, and 27.

Pathology, etiology, and management of pediatric disorders. (A, CSU)

**25 OBSTRUCTIVE RESPIRATORY DISEASES****2 units, 2 lecture hours, (Spring)**

PREREQUISITE: Respiratory Care 16B, 18, 21, 21C, and 26). COREQUISITE: Respiratory Care 21B, 22, and 24.

The pathology, etiology and management of obstructive respiratory diseases and disorders. (A, CSU)

**25B RESPIRATORY DISORDERS AND TRAUMA****2 units, 2 lecture hours**

PREREQUISITE: Respiratory Care 21B, 22, 24, and 25. COREQUISITE: Respiratory Care 23, 23B, 24B, and 27.

Pathology, etiology and management of restrictive disorders and trauma. (A, CSU)

**26 AIRWAY MANAGEMENT****1.5 units, 1.5 lecture hours**

PREREQUISITE: Respiratory Care 15, 16, 16C, 17, and 20. COREQUISITE: Respiratory Care 16B, 18, 21, and 21C.

Applications and procedures to provide a patent airway. (A, CSU)

**27 RESPIRATORY CARE REVIEW AND SIMULATIONS****1 unit, 1 lecture hour**

PREREQUISITE: Respiratory Care 21B, 22, 24, and 25. COREQUISITE: Respiratory Care 23, 23B, 24B, and 25B.

Preparation course for national exams and professional development. (A, CSU)

**RETAILING FASHION**

SEE FASHION MERCHANDISING

**SOCIAL SERVICE**

SEE HUMAN SERVICES (HS)

**SOCIOLOGY (SOC)****1A INTRODUCTION TO SOCIOLOGY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Basic concepts, theoretical approaches, and methods of sociology. Analysis and explanation of social structure, culture, socialization, the self and social interaction, group dynamics, institutions, deviance, stratification, social change, social problems, and global dynamics. (C-ID SOCI 110) (A, CSU-GE, UC, I)

**1AH HONORS INTRODUCTION TO SOCIOLOGY****3 units, 3 lecture hours**

ADVISORY: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in college catalog.

Basic concepts, theoretical approaches, and methods of sociology. Analysis and explanation of social structure, culture, socialization, the self and social interaction, group dynamics, institutions, deviance, stratification, social change, social problems, and global dynamics. Places a greater emphasis than SOC 1A on methods of conducting scientific research in the field of sociology. Additional emphasis is placed on contemporary social issues as explored through supplemental readers or texts. (C-ID SOCI 110) (A, CSU-GE, UC, I)

**1B CRITICAL THINKING ABOUT SOCIAL PROBLEMS****3 units, 3 lecture hours**

ADVISORY: English 1A and Sociology 1A or 1AH.

An identification and analysis of contemporary social problems including causes, consequences and possible solutions. Explanation of theoretical perspectives used to explain social problems. Consideration of sociological methods of research and analysis. Application of critical thinking skills, specifically taught in the course, designed to result in heightened critical thinking ability as well as strengthened social awareness. (C-ID SOCI 115) (A, CSU-GE, UC)

**2 AMERICAN MINORITY GROUPS****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Overview of sociological, institutional, demographic, and social-psychological aspects of ethnicity and race. Examination of non-dominant groups in the United States. (C-ID SOCI 150) (A, CSU-GE, UC,

**5 SOCIOLOGY OF RAPE****3 units, 3 lecture hours, (See also Women's Studies 5)**

ADVISORY: Eligibility for English 1A recommended.

A micro and macro overview of rape including the history of rape, a study of what creates a rape culture, social and psychological characteristics and pathology of rapists, sociological impact upon and psychology of the survivor. Includes examination of various forms of sexual assault such as acquaintance rape, marital rape, male rape, gang rape and child sexual assault. The sociological foundation and history of current laws and their execution are also explored. (A, CSU, UC)

**7 DOMESTIC VIOLENCE: ABUSE WITHIN THE FAMILY****3 units, 3 lecture hours, (See also Women's Studies 7)**

ADVISORY: Eligibility for English 1A recommended.

A micro and macro study of the historical and contemporary problem of domestic violence. Overview of the battered spouse syndrome, characteristics of the survivor and the batterer, therapeutic approaches and development of legislation. Various forms of domestic violence such as child abuse, elder abuse, and violence in same gender relationships are also studied. (A, CSU, UC)

**10 INTRODUCTION TO AGING STUDIES****3 units, 3 lecture hours, (See also Human Services 10), (Formerly Sociology 22)**

ADVISORY: English 1A.

Overview of social, economic, biological and psychological aspects of aging. Exploration of challenges and strengths of the aging people with emphasis on consumerism, housing, health, leisure time, family roles, retirement, widowhood and sexuality. (A, CSU-GE, UC, I)

**14 SOCIOLOGY OF THE MEXICAN AMERICAN COMMUNITY****3 units, 3 lecture hours, (See also Chicano-Latino Studies 14)**

ADVISORY: Eligibility for English 1A recommended.

Sociological examination of the Chicano-Latino in American society: family, religion, education, social class, gender, and political and social institutions. Emphasis on social problems, social issues, and social change. (A, CSU, UC)

**31 THE CHILD IN SOCIETY: A SOCIAL PROBLEMS APPROACH****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Explores personal and social aspects contributing to the relationships and social problems facing children: socialization, the dysfunctional family, abuse, deprivation, disabilities and special needs, drugs, delinquency and sexuality. (A, CSU)

**32 INTRODUCTION TO MARRIAGE AND FAMILY****3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Sociological analysis of marriage and the family, including historical and contemporary changes, and the socio-cultural and economic forces shaping these changes. Topics may include but are not limited to: love, courtship, mate selection, sexuality, family planning, pregnancy and childbirth, sexually transmitted diseases, family conflict, conflict resolution, communication skills, divorced families, step-families, aging and widowhood. (C-ID SOCI 130) (A, CSU-GE, UC)

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**SPANISH**SEE FOREIGN LANGUAGES

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**SPECIAL STUDIES**

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**47 (COURSE TITLE TO BE SELECTED)  
0.5-5 units, 0-5 lecture hours, 0-15 lab  
hours, 9 lecture hour equivalents per 1/2  
unit of credit**

ADVISORY: Eligibility for English 1A recommended.

Current topics of importance and concern in a designated subject field or on topics not covered in the regular curriculum or which need to be covered in greater depth than is possible within the regular offerings. Designed for transfer credit. Some topics may be repeatable. Units and hours to be determined. (A, CSU, UC approved as variable topics; evaluation completed by individual campuses after admission.)

**177 (COURSE TITLE TO BE SELECTED)  
0.5-10 units, 0-10 lecture hours, 0-30 lab  
hours, 9 lecture hour equivalents per 1/2  
unit of credit, (Formerly Special Studies 77)**

PREREQUISITE: To be determined.

Current topics of importance and concern in a designated subject field or on topics not covered in the regular curriculum or which need to be covered in greater depth than is possible with the regular course offerings. Designed for degree applicable, nontransfer credit. Some topics may be repeatable. Units and hours to be determined. (A)

**277 (COURSE TITLE TO BE SELECTED)**  
 0.1-15 units, 0-15 lecture hours, 0-45 lab hours, 9 lecture hour equivalents per 1/2 unit of credit, (Formerly Special Studies 77)  
 PREREQUISITE: To be determined.

Current topics of importance and concern in a designated subject field or on topics not covered in the regular curriculum or which need to be covered in greater depth than is possible with regular offerings. Designed for nondegree, nontransfer credit. Units and hours to be determined.

**377 (COURSE TITLE TO BE SELECTED)**  
 1-40 lecture hours, 1-40 lab hours, (Pass/No Pass), (Open Entry, Open Exit), (Formerly Special Studies 77)

PREREQUISITE: To be determined.

Current topics of importance and concern in a designated subject field or on topics not covered in the regular curriculum or which need to be covered in greater depth than is possible with the regular offerings. Designed for noncredit. 0 unit, lecture hours and lab hours to be determined.

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## SPEECH (SPEECH)

SEE COMMUNICATIONS

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## SUPERVISED TUTORING (ST)

FORMERLY BASIC STUDIES AND INDIVIDUALIZED LEARNING

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**300 SUPERVISED TUTORING**  
 Lab hours arranged, (Repeats = 3),  
 (Formerly Supervised Tutoring 100)

PREREQUISITE: None.

Provides tutoring assistance to increase the probability of a student's successful completion of his or her educational objectives. Hours will vary depending upon individual student need.

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## THEATRE ARTS (TA)

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**12 FUNDAMENTALS OF ORAL INTERPRETATION**  
 3 units, 3 lecture hours, (See also Communication 12)

ADVISORY: Eligibility for English 1A recommended.

An introduction to performance studies; analysis, appreciation, and application of theories of interpretive performance of various forms of literature including poetry, prose, and drama. (A, CSU-GE, UC)

**15C CREATIVE WRITING: PLAYWRITING**  
 3 units, 3 lecture hours, (See also English 15C)

PREREQUISITE: English 1A or the equivalent.

Analysis and writing of plays for critical review. (A, CSU, UC)

**23 TECHNICAL THEATRE PRACTICUM**  
 3 units, 1 lecture hour, 6 lab hours

ADVISORY: Eligibility for English 1A recommended.

Application of production responsibilities in one or more of the following areas: stage management, house management, construction, scenery, properties, costumes, lighting, sound, and running crew. Students will serve on the crew for a department production. Some night and weekend hours may be required. (C-ID THTR 192) (A, CSU, UC)

**25 STAGECRAFT**

**3 units, 3 lecture hours, (Formerly Theatre Arts 34A)**

ADVISORY: Eligibility for English 1A recommended.

Introduction to technical theatre and the creation of scenic elements. Includes basic introduction to design, construction, set movement, props, backstage organization, stage management, lighting equipment, and sound. Discussion of career possibilities. (C-ID THTR 171) (A, CSU, UC)

**27A INTRODUCTION TO SCENIC DESIGN**  
 3 units, 3 lecture hours, 1 lab hour,  
 (Formerly Theatre Arts 39, 40, and 41)

ADVISORY: Eligibility for English 1A and Mathematics 201 recommended.

Designing and drafting scenery for the theatre. Ground plans, section drawings, elevations, and scenic models are emphasized. (A, CSU, UC)

**27B INTRODUCTION TO LIGHTING DESIGN**  
 3 units, 3 lecture hours, 1 lab hour

ADVISORY: Eligibility for English 1A and Mathematics 201 recommended.

Study and execution of lighting for the theatre. Equipment control lighting plots; color theory; photo-metrics and cueing are emphasized. (C-ID THTR 173) (A, CSU, UC)

**28 INTRODUCTION TO STAGE MAKEUP**  
 3 units, 2 lecture hours, 3 lab hours,  
 (Formerly Theatre Arts 37)

ADVISORY: Eligibility for English 1A and recommended.

Introduction to methods of designing and applying makeup for theatrical use. Instruction and practice in a lecture/laboratory setting. (C-ID THTR 175) (A, CSU, UC)



**29A ADVANCED TECHNICAL THEATRE PRACTICUM I**

**1 unit, 3 lab hours**

PREREQUISITE: Theatre Arts 23.

Topics in more advanced technical theatre, and stage crew leadership. Students may specialize in one or more of the following areas (with instructor approval): Scenery, Properties, Costumes, Make Up, Lighting, Sound, Special Effects. (A, CSU, UC)

**29B ADVANCED TECHNICAL THEATRE PRACTICUM II**

**1 unit, 3 lab hours**

PREREQUISITE: Theatre Arts 29A.

Topics in advanced technical theatre beyond the scope of TA29A. Students may specialize in one or more of the following areas (with instructor approval): Scenery, Properties, Costumes, Make Up, Lighting, Sound, Special Effects. (A, CSU, UC)

**30 THEATRE APPRECIATION**

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

An introduction to the Theatre with emphasis on the theatre as an exciting artistic and social experience. Designed for the general student. (C-ID THTR 111 AND THTR 112) (A, CSU-GE, UC, I)

**31 THEATRE HISTORY AND DRAMATIC LITERATURE I**

**3 units, 3 lecture hours, (Formerly Theatre Arts 32A)**

ADVISORY: Eligibility for English 1A recommended.

Survey of the Theatre history and dramatic literature of Western culture from Ancient Greeks through 18th Century. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. (C-ID THTR 113) (A, CSU-GE, UC, I)

**32 THEATRE HISTORY AND DRAMATIC LITERATURE II**

**3 units, 3 lecture hours, (Formerly Theatre Arts 32B)**

ADVISORY: Eligibility for English 1A recommended.

Survey of the theatre history and dramatic literature of Western culture from 19th century to the present. (A, CSU-GE, UC, I)

**35 COSTUME CRAFTS**

**3 units, 3 lecture hours, (Formerly Theatre Arts 35A)**

ADVISORY: Eligibility for English 1A recommended.

Techniques used for costume and costume accessory construction. (A, CSU, UC)

**36 COSTUME DESIGN**

**3 units, 3 lecture hours, (Formerly Theatre Arts 35B)**

ADVISORY: English 1A recommended.

Introduction to the creation of costumes for the stage. The study of costume history, design and basic construction techniques. Fabrics and their various uses will be investigated. (C-ID THTR 174) (A, CSU, UC)

**38 SCRIPT ANALYSIS**

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

Principles, theories and techniques of play script analysis for theatrical production. Fully explore an in-depth methodology of reading, analyzing and understanding play scripts in a variety of genres and styles intended for production. Investigate techniques used to determine how to read a play for its' structure, scrutinizing the playwright's methods of creating theatre through plot, character and imagery, and understanding what scripts "mean" to the professional theatre artist and theatre-goer as distinct from other forms of literature. (C-ID THTR 114) (A, CSU, UC)

**39A INTERMEDIATE CREW PRACTICUM I**

**1 unit, 3 lab hours**

PREREQUISITE: Theatre Arts 23.

Allows students to explore more advanced or different positions as part of a theatrical stage crew. (A, CSU, UC)

**39B INTERMEDIATE CREW PRACTICUM II**

**1 unit, 3 lab hours**

PREREQUISITE: Theatre Arts 39A.

Leadership roles on a theatrical crew. (A, CSU, UC)

**40 PERFORMANCE PRACTICUM**

**3 units, 1 lecture hour, 6 lab hours, (Repeats = 3)**

ADVISORY: Eligibility for English 1A recommended.

Rehearsal and performance of plays for public presentation. Credit given for the performance of acting roles, stage management, direction or assistant direction of a Fresno City College theatre production. Participation in a Fresno City College theatre production required. (C-ID THTR 191) (A, CSU)

- 41 BEGINNING ACTING**  
**3 units, 3 lecture hours, (Formerly Theatre Arts 31A)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Apply basic acting theory to performance and develop the skills of interpretation of drama through acting. Special attention is paid to skills for performance: memorization, stage movement, vocal production, and interpretation of text. Not open to students enrolled in Theatre Arts 42. (C-ID THTR 151) (A, CSU, UC)
- 42 BEGINNING ACTING FOR THEATRE MAJORS**  
**3 units, 2 lecture hours, 4 lab hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Designed for theatre arts majors stresses acting technique, character building, scene and monologue performance, and scene analysis from selected plays from Modern Realism. Not open to students currently enrolled in Theatre Arts 41. (C-ID THTR 151) (A, CSU, UC)
- 43 INTERMEDIATE ACTING**  
**3 units, 3 lecture hours, (Formerly Theatre Arts 31B)**  
 PREREQUISITE: Theatre Arts 41 or 42. ADVISORY: Eligibility for English 1A recommended.  
 Improvisation, body movement, character development; class exercises to develop voice for the stage, classical and contemporary, monologues and scene study with class performance. (C-ID THTR 152) (A, CSU, UC)
- 44A ACTORS WORKSHOP**  
**3 units, 2 lecture hours, 3 lab hours, (Formerly Theatre Arts 38A and 38B, 38, and 44)**  
 PREREQUISITE: Theatre Arts 41 or 42. ADVISORY: Theatre Arts 43. Eligibility for English 1A recommended.  
 Skill development for actors with intermediate acting experience. Explores elements of performance styles, scene work of classical and contemporary materials and auditioning techniques. (A, CSU-GE, UC)
- 44B ACTORS WORKSHOP 2**  
**3 units, 2 lecture hours, 3 lab hours**  
 PREREQUISITE: Theatre Arts 44A. ADVISORY: Eligibility for English 1A recommended.  
 Skill development for actors with advanced acting experience. Explores elements of performance styles, scene work of classical and contemporary materials and auditioning techniques. Memorization skills required. (A, CSU, UC)
- 45 KENNEDY CENTER AMERICAN COLLEGE THEATER FESTIVAL TOPICS**  
**2 units, 2 lecture hours, 4 lab hours, (9 weeks), (Repeats = 3)**  
 PREREQUISITE: Student must either be selected by Kennedy Center American College Theater Festival adjudicators for participation in the festival, or be approved by the instructor to attend.  
 Preparation of theatre students for attendance at the Kennedy Center American College Theater Festival. Participation in master classes and participation/attendance at adjudication/competition events. (A, CSU)
- 46 VOICE FOR THE ACTOR**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 Principles of the use of voice and speech for stage performance including Standard American Speech (IPA), diaphragmatic breath control, relaxation techniques, enunciation, articulation, projection, vocal characterization, vocal energy imagination and visualization in creating artistic and authentic self expression. (A, CSU, UC)
- 48A TEASERS I**  
**0.5 unit, 0.25 lecture hour, 2 lab hours (Formerly Theatre Arts 48)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Creation, rehearsal and performance of new plays for public presentation. Participation in a Fresno City College theatre production of Teasers is required. (A, CSU)
- 48B TEASERS II**  
**0.5 unit, 0.25 lecture hour, 2 lab hours, (Formerly Theatre Arts 48)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Techniques for collaborative work on the creation, rehearsal and performance of new plays for public presentation. Participation in a Fresno College production of Teasers is required. (A, CSU)
- 49 INTRODUCTION TO THEATRE DESIGN**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 A survey of scenery, sound, costumes, makeup, properties, theatrical equipment and construction techniques through demonstration, and laboratory experience. Information is application to all formal theatrical applications. (A, CSU)

**200 MOVEMENT FOR THE PRODUCTION THE LITTLE PRINCE****2 units, 1 lecture hour, 3 lab hours**

COREQUISITE: Theatre Arts 40.

Prepare students for character movement and/or dance for production.

**346 SENIOR MUSICAL PERFORMANCE SKILLS  
3 lab hours, (Unlimited Repeats), (Pass/No Pass)**

PREREQUISITE: Students must meet the minimum age requirements to audition for "New Wrinkles."

Skill-building in musical theatre such as chorus, small ensemble, and/or solo singing. Intended to help students considering auditioning and performing in the annual "New Wrinkles" production at Fresno City College.

**347 SENIOR MUSICAL THEATRE SKILLS  
3 lab hours, (Unlimited Repeats), (Pass/No Pass)**

PREREQUISITE: Students must meet the minimum age requirements to audition for "New Wrinkles."

Skill-building in musical theatre such as dancing and/or acting. Intended to help students considering auditioning and performing in the annual "New Wrinkles" production at Fresno City College.

**348 SENIOR PLAY PRODUCTION  
1 lecture hour, 9 lab hours, (16 weeks),  
(Unlimited Repeats), (Formerly Theatre Arts 80)**

ADVISORY: Theatre Arts 347.

Organize, write, cast, rehearse, and perform a major seniors' musical variety show for public performance.

**VOCATIONAL ENGLISH AS A SECOND LANGUAGE (VESL)****180RW APPLIED ADVANCED READING AND WRITING FOR COLLEGE AND CAREERS  
3 units, 3 lecture hours**

PREREQUISITE: Vocational English as a Second Language 265R and 265W.

Advanced reading, vocabulary, writing, grammar, critical thinking and study skills applied to tasks for various career fields. Reading strategies reinforced through the use of workplace materials and other texts. Emphasis on a broad range of professional communication genres, as well as acquisition and application of syntactic, lexical and grammatical rules. Course content includes: problem solving, teamwork, critical thinking, organizational and research skills, self-editing and the use of technological resources. (A)

**380 ENGLISH FOR CONSTRUCTION  
3 lecture hours, (Pass/No Pass),  
(Repeats = 1)**

ADVISORY: Use of English as a second or other language.

This course emphasizes a strong writing/reading curriculum based on workplace communication needs. Basic vocabulary for the construction industry will be taught through contextualization. Emphasis on written requirements for the workplace and reading skills required for workplace tasks. Effective communication skills relevant to students' needs will be developed.

**WELDING TECHNOLOGY (WELD)****1 EXPLORING WELDING/METALS  
3 units, 2 lecture hours, 3 lab hours,  
(Formerly Industrial Education 5)**

ADVISORY: Applied Technology 130. Eligibility for English 1A recommended.

An introduction to oxyacetylene and plasma cutting. Shielded metal arc welding (SMAW) and gas metal arc welding (GMAW) in the flat and horizontal positions, along with other methods of joining steel together. An emphasis is placed on safety and developing good manipulative skills. (A, CSU)

## 2A INTRODUCTION TO WELDING TECHNOLOGY

**6 units, 4 lecture hours, 6 lab hours**

ADVISORY: Applied Technology 130. Eligibility for English 1A recommended.

Oxyacetylene cutting, shielded metal arc, gas metal arc (MIG), Flux Cored Arc Welding (FCAW) and gas tungsten arc (TIG) welding. An emphasis on good manipulative welding skills for joining steel, stainless steel and aluminum. Use of various electrodes. An introduction to the electrode and base metal classification system. (A, CSU)

## 2B ADVANCED MULTI-PROCESS WELDING

**5 units, 3 lecture hours, 7 lab hours**

PREREQUISITE: Welding Technology 2A.

Vertical and overhead welding with the shielded metal arc process leading to the American Welding Society (AWS) Structural Welding Code 3G and 4G Unlimited Certification Test. Advanced welding skills with gas metal arc (MIG), fluxed cored (FCAW) and gas tungsten arc (TIG). (A, CSU)

## 3A WELDING DESIGN AND FABRICATION

**5 units, 3 lecture hours, 7 lab hours**

PREREQUISITE: Welding Technology 2B. COREQUISITE: Computer Aided Drafting & Design 16. ADVISORY: Drafting 12 recommended.

Design and fabrication of metal projects by welding. Manufacturing processes, production techniques, and material cost estimation. (A, CSU)

## 3B INTERMEDIATE WELDING DESIGN AND FABRICATION

**5 units, 3 lecture hours, 7 lab hours**

PREREQUISITE: Welding Technology 3A.

A continuation of Welding 3A in the design, construction, and finishing of welded projects. (A, CSU)

## 3C CUSTOM METAL FABRICATION

**2.5 units, 8 lab hours**

PREREQUISITE: Welding Technology 3B.

This course is a continuation of Weld 3B and allows students to use the skills learned in the previous class to fabricate custom projects. (A, CSU)

## 4A HEAVY PLATE, STRUCTURAL STEEL AND WELDING CERTIFICATION

**5 units, 3 lecture hours, 7 lab hours**

PREREQUISITE: Welding Technology 2B. ADVISORY: Applied Technology 130, Drafting 12, and eligibility for English 1A recommended.

An emphasis on obtaining certification in vertical and overhead welding positions (3G and 4G) in structural welding with Shielded Metal Arc Welding (SMAW) Flux Cored Arc Welding (FCAW) Gas Metal Arc Welding (GMAW) processes leading to the American Welding Society (AWS) Structural Welding Code Certification test. (A, CSU)

## 4B PIPE, TUBE WELDING AND CERTIFICATION

**5 units, 3 lecture hours, 7 lab hours**

PREREQUISITE: Welding Technology 4A. ADVISORY: Applied Technology 130, Drafting 12, and eligibility for English 1A recommended.

Shielded Metal Arc, Gas Tungsten Arc, and Flux Cored Arc welding processes on different piping systems. Fit up and assemble joint configurations used in pressure vessel, power systems, cross country and refinery applications. Certification procedures in accordance with API, AWS, and ASME codes. (A, CSU)

## 5A AUTOMATED WELDING

**3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: None.

The first of a two-part series introducing fundamental theory and hands-on application of robotic welding automation. Emphasizes safety awareness, programming techniques, and basic gas metal arc welding. Application will consist of using six-axis robotic welding equipment. (A, CSU)

## 5B ADVANCED AUTOMATED WELDING AND CUTTING

**3 units, 2 lecture hours, 4 lab hours**

PREREQUISITE: Welding Technology 5A.

The second of a two-part series introducing fundamental theory and hands-on application of robotic welding automation and cutting. Emphasizes safety awareness, programming techniques, and basic gas metal arc welding and plasma cutting applications using six-axis robotic welding and a 5 axis CNC plasma cutting system. (A, CSU)

## 6A SHIELDED METAL ARC WELDING THEORY AND APPLICATION

**3.5 units, 2 lecture hours, 4.75 lab hours**

ADVISORY: Applied Technology 10.

Theory and application of the shielded metal arc welding process. Welding will be done in the flat, horizontal, vertical and overhead positions on mild steel. This will prepare students to take the American Welding Society (AWS) D1.1 qualification test. An introduction to the principles of shielded metal arc welding (SMAW), setup/use of SMAW equipment, and safe use of tools and equipment. Provides instruction in welding carbon steel weld joints in various positions. (A, CSU)

**6B SEMI-AUTOMATED WIRE FEED WELDING**  
**3.5 units, 2 lecture hours, 4.75 lab hours**

ADVISORY: Applied Technology 10.

Theory and application of semi-automatic wire feed process to include Gas Metal Arc Welding and Flux Core Arc Welding. Welding will be done in the flat, horizontal, vertical, and overhead position using mild steel, and stainless steel. (A, CSU)

**6C GAS TUNGSTEN ARC WELDING THEORY AND APPLICATION**

**3.5 units, 2 lecture hours, 4.75 lab hours**

ADVISORY: Applied Technology 10.

Theory and application of the Gas Tungsten Arc Welding (GTAW) process. Welding will be done in the flat, horizontal, vertical, and overhead position using mild steel, and stainless steel and aluminum. (A, CSU)

**10 PIPE AND TUBE FITTING**

**2 units, 1 lecture hour, 3 lab hours**

PREREQUISITE: Welding Technology 3B and 4B. ADVISORY: Applied Technology 130.

This course assists students in pipe and tube fitting, measurements, patterns, marking and layout tools used in the pipe welding industry. Techniques of fitting and cutting various pipe and tubing joint designs will be practiced. (A, CSU)

**56 BLUEPRINT READING FOR WELDERS**

**2 units, 2 lecture hours**

ADVISORY: Applied Technology 130. Eligibility for English 1A recommended.

Basic fundamentals of blueprint reading and welding symbol interpretation as required by the welding trade. (A, CSU)

**83A INDUSTRIAL ROBOTICS - INTRODUCTION**

**3 units, 3 lecture hours, 1 lab hour, (See also Electrical Systems Technology 83A)**

ADVISORY: English 1A and Electrical Systems Technology 54.

This introduction covers the basic operation, programming, and vision integration with industrial robots. (A, CSU)

**WOMEN'S STUDIES (WSTS)**

**5 SOCIOLOGY OF RAPE**

**3 units, 3 lecture hours, (See also Sociology 5)**

ADVISORY: Eligibility for English 1A recommended.

A micro and macro overview of rape including the history of rape, a study of what creates a rape culture, social and psychological characteristics and pathology of rapists, sociological impact upon and psychology of the survivor. Includes examination of various forms of sexual assault such as acquaintance rape, marital rape, male rape, gang rape and child sexual assault. The sociological foundation and history of current laws and their execution are also explored. (A, CSU, UC)

**7 DOMESTIC VIOLENCE: ABUSE WITHIN THE FAMILY**

**3 units, 3 lecture hours, (See also Sociology 7)**

ADVISORY: Eligibility for English 1A recommended.

A micro and macro study of the historical and contemporary problem of domestic violence. Overview of the battered spouse syndrome, characteristics of the survivor and the batterer, therapeutic approaches, and development of legislation. Various forms of domestic violence such as child abuse, elder abuse, and violence in same gender relationships are also studied. (A, CSU, UC)

**10 CHANGING ROLES OF WOMEN**

**3 units, 3 lecture hours**

ADVISORY: Eligibility for English 1A recommended.

The traditional and changing roles of women in Western society, including the effects of these roles on women as individuals, in their personal relationships, and their status in society. The contributions and contrasting perspectives of minority/ethnic women are an integral part of the course content. (C-ID SJS 120) (A, CSU-GE, UC, I)

**22 HISTORY OF AMERICAN WOMEN**

**3 units, 3 lecture hours, (See also History 22)**

ADVISORY: English 1A.

Women in American history: social, political, and economic actions and reactions of American women; racial, ethnic, religious, geographic, and class differences. (A, CSU-GE, UC, I)

**24 LA CHICANA AND LATINA**  
**3 units, 3 lecture hours, (See also Chicano-Latino Studies 24)**  
 ADVISORY: Eligibility for English 1A recommended.  
 A sociological analysis of Mexican American women in contemporary society. Special emphasis placed on her role in the family, church, education, economics, and politics. (A, CSU, UC)

**25 ASSERTIVENESS TRAINING**  
**2 units, 2 lecture hours, (See also Human Services 25)**  
 ADVISORY: English 1A.  
 Becoming more effective and creative in expressing oneself in a courteous and dignified manner. Discovering the communication options available in various life situations. (A, CSU)

**36 WOMEN'S LITERATURE**  
**3 units, 3 lecture hours, (See also English 36)**  
 PREREQUISITE: English 1A or equivalent.  
 Survey of literature by women in fiction, drama, poetry, biography, and essay. Covers multicultural and international literature from classical to contemporary periods, in addition to feminist and gender theory. (A, CSU-GE, UC, I)

**41 AFRICAN-AMERICAN WOMEN'S STUDIES**  
**3 units, 3 lecture hours, (See also African-American Studies 41)**  
 ADVISORY: Eligibility for English 1A recommended.  
 Analyzes the social, political, and cultural history of African American women in the United States from an interdisciplinary perspective including the complex ways that ethnicity, class and gender have shaped African American women's lives and the strategies they have used to empower themselves and their communities. (A, CSU, UC)

**43 WOMEN'S NUTRITION**  
**2 units, 2 lecture hours, (See also Food and Nutrition 43)**  
 ADVISORY: Eligibility for English 1A recommended.  
 The relationship between nutrition and various contemporary health issues affecting women. Significance of nutrition as it relates to the health of women during specific stages in the life cycle. Current trends and research. (A, CSU)

**44 WOMEN IN MANAGEMENT**  
**3 units, 3 lecture hours**  
 ADVISORY: Business Administration 10 and eligibility for English 1A recommended.  
 Management and entrepreneurial behaviors for women seeking leadership skills, particularly for managers and those aspiring to executive levels. (A, CSU)

**47 INTRODUCTION TO LESBIAN AND GAY STUDIES**  
**3 units, 3 lecture hours**  
 ADVISORY: Eligibility for English 1A recommended.  
 The interdisciplinary field of Lesbian and Gay Studies through the disciplines of history, literature, law, science, political science, media, psychology, and education. Issues to be covered will include but not be limited to identity development and coming out, cultural ideology, sub-cultures, activism, gay marriage, gay parenting and community. Theoretical perspectives concerning the historical development of sexual identity, the marginalization of sexual minority communities within social institutions and concomitant issues of class, race and gender in contemporary U.S. society and around the world will be explored. (A, CSU-GE, UC, I)

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## WORK EXPERIENCE, GENERAL (WKEXP)

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**19 WORK EXPERIENCE (COOPERATIVE), GENERAL**  
**1-6 units**  
 COREQUISITE: Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to work experience. Summer Session: Enrollment in another college course is optional. Work experience need not be related to student's educational goal.  
 Acquisition of desirable work habits, attitudes and career awareness. Exploring basic academic skills, communicating, adapting to new situations, and problem solving. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of six (6) units total in one enrollment period and not repeatable. (A, CSU)

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## ZOOLOGY

SEE BIOLOGY

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# COLLEGE PERSONNEL

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## State Center Community College District

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*Dean of Student Services,  
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## Faculty and Administration

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- Adams, Alexis (2021)  
*Director, Institutional Research, Planning, and Effectiveness*  
B.A., M.A., Ph.D., University of New Mexico
- Adams, Darren (2013)  
*Electrical Systems Technology*
- Adams, Elizabeth (2017)  
*Engineering*  
B.S., Boise State University  
M.S., University of Hawaii  
Ph.D., Arizona State University
- Allen, Nathan (2011)  
*Mathematics*  
A.A., Reedley College  
B.A., M.A., California State University, Fresno
- Al-kuhlani, Mufadhil (2018)  
*Biology*  
B.S., University of Kansas  
Ph.D., University of California, Merced
- Alvarado, George (2021)  
*Director, Counseling and Special Projects*  
B.A., M.A., Ed.D., California State University, Fresno
- Alvarez, David (2020)  
*Automotive Technology*
- Anderson, Lydia (1997)  
*Business Administration/Marketing*  
A.A., Reedley College  
B.S., M.B.A., California State University, Fresno
- Anderson, Sasha (2008)  
*Mathematics*  
B.A., University of California, Santa Barbara  
M.A., California State University, Fresno
- Antonio, Estefana (2013)  
*Child Development Coordinator*  
B.S., M.A., California State University, Fresno
- Arriola, Susan (2019)  
*Director, Disabled Students Programs and Services*  
A.A., West Hills College  
B.A., M.S., California State University, Fresno
- Avery, Douglas D. (2002)  
*Mathematics*  
B.A., California State University, Fresno  
M.A., Fresno Pacific University
- Baca, Marisol (2014)  
*English*  
A.A., San Antonio College  
B.A., California State University, Fresno  
M.F.A., Cornell University
- Baker, Brian (2012)  
*Computer Information Technology*  
B.A., M.S., California State University, Fresno
- Balakian, Amber (2015)  
*Entrepreneurship/Business Administration*  
B.A., University of California, San Diego  
M.A., Harvard University
- Baldwin, William (2017)  
*Nursing*  
A.S., Fresno City College  
B.S., M.S.N., Grand Canyon University
- Balogh, David (2001)  
*Physics*  
B.S., M.S., Brigham Young University
- Bane, Leigh Ann (2016)  
*Reading*  
B.S., Oklahoma State University  
M.A., California State University, Fresno
- Barabe, Becky (2017)  
*Dean of Instruction, Applied Technology, Career and Technology Center and Workforce Development Divisions*  
B.A., University of California, Berkeley  
M.A., Fresno Pacific University  
Ed.D., Concordia University, Portland
- Bascom, Brandon (2014)  
*Music*  
B.M., Brigham Young University  
M.M., Manhattan School of Music  
M.M., University of Michigan  
D.M.A., University of Iowa
- Bedolla, Delmy J. (2019)  
*Respiratory Care*  
A.A., Reedley College  
A.S., Fresno City College  
B.A., University of California, Riverside  
M.A., Fresno Pacific University
- Begley, Polly (2000)  
*Communication*  
B.A., M.A., San Diego State
- Benas, Rebecca (2015)  
*English*  
B.A., University of Washington  
M.A., California State University, Bakersfield
- Benavides, Victoria (2021)  
*Chicano-Latino Studies*  
B.A., University of California, Berkeley  
M.A., Seattle University  
M.S., University of Arizona, Tucson
- Benefiel, Diane M. (2004)  
*Nursing*  
B.S., Point Loma College, San Diego  
M.S., California State University, Dominguez Hills  
Ed.D., California State University, Fresno
- Bezerra-Nader, Rosemarie (1990)  
*Developmental Mathematics*  
B.A., California State University, Fresno  
M.A., Fresno Pacific College
- Bibayoff, Natalie (2017)  
*Human Services*  
A.A., Fresno City College  
B.A., California State University, Long Beach  
M.S.W., University of California, Los Angeles  
Ed.D., California State University, Sacramento
- Blackerby-Slater, Laurel (2001)  
*Mathematics*  
B.S., University of California, Davis  
M.A., Fresno Pacific University
- Blodgett, Ryan (2008)  
*Counselor, Disabled Students Programs & Services*  
B.A., M.A., California State University, Fresno
- Bolen, Gennean (2001)  
*English*  
B.A., Oral Roberts University  
M.A., California State University, Fresno  
Ed.D., Alliant International University
- Boyd, Sean (2018)  
*Geography*  
B.A., California State University, Fresno



- Boyle, Anna (2014)  
*English*  
B.A., M.A., California State University, Fresno
- Brady, Christopher P. (2018)  
*Commercial Music*  
A.A., Los Medanos College  
B.A., Brigham Young University  
M.A., University of California, Los Angeles
- Brandl, Jeremy (2011)  
*Mathematics*  
B.A., M.A., California State University, Fresno
- Brito, Simone (2016)  
*Biology*  
B.S., M.S., Universidade Estadual Paulista
- Cacossa, Peter (2018)  
*Director, Fire Academy*  
B.S., United States Military Academy of West Point
- Caetano, Heidi (2008)  
*Dental Hygiene*  
A.S., Fresno City College  
B.S., California Polytechnic University, San Luis Obispo  
M.A.Ed., Fresno Pacific University
- Caeton, Daniel (2016)  
*English*  
B.A., University of California, Berkeley  
M.A., California State University, Fresno
- Callahan, Kevin (2015)  
*Criminology*  
B.S., California State University, Sacramento  
Master of Advance Study, University of California, Irvine
- Camacho, Brett P. (2005)  
*Welding Technology*  
B.S., M.S., California Polytechnic University, San Luis Obispo
- Camacho, Tammy (2011)  
*Applied Technology*  
B.S., M.S., California Polytechnic, San Luis Obispo
- Campos, David (2017)  
*English*  
B.A., California State University, Fresno  
M.F.A., University of California, Riverside
- Cantu, Gerald C. (2019)  
*Philosophy*  
A.A., Bakersfield College  
B.A., University of California, Berkeley  
Ph.D., University of California, Irvine
- Carrigan, Janel (2012)  
*Business Administration*  
B.A., Pepperdine University  
M.B.A., National University
- Caviglia, Tony (1999)  
*Physical Education*  
A.A., Chabot College B.A., California Polytechnic, San Luis Obispo  
M.A., University of Southern California
- Cazares, Ernesto (2018)  
*Counselor*  
A.S., Fresno City College  
B.S., California State University, Fresno  
M.S., National University
- Chacon, Kenneth R. (2005)  
*Developmental English*  
B.A., University of California, Davis  
M.F.A., California State University, Fresno
- Chandler, Donna (2001)  
*Librarian*  
A.A., University of Maryland  
B.A., M.L.S., San Jose State University
- Chavez, Carlos (2021)  
*Fire Technology Instructor/Coordinator*  
A.S., Fresno City College  
A.A.S., Community College of the Air Force  
B.A., B.S., California State University, Fresno  
M.A., Fresno Pacific University
- Cherry, Rebecca (2019)  
*Chemistry*  
B.S., M.S., University of Colorado, Denver
- Cho, John (2001)  
*Asian-American Studies*  
B.A., M.A., California State University, Fresno
- Christl-Stein, Janine (2007)  
*Theatre Arts Director*  
B.A., University of California, Santa Cruz  
M.F.A., California State University, Fullerton
- Clift, Renee (2016)  
*Human Services*  
B.A., M.S.W., California State University, Fresno
- Chin, Steven (2021)  
*Film*  
B.A., University of California, San Diego  
M.F.A., Chapman University, Orange
- Cole, Michael (2009)  
*Philosophy*  
B.A., University of California, Los Angeles  
Ph.D., University of California, Santa Barbara
- Cooper, Donna G. (2018)  
*Dean of Instruction, Student Success & Learning*  
B.S., Judson College  
M.A., Ed.D., California State University, Fresno
- Cooper, Kevin (2009)  
*Music*  
B.M., Ithaca College  
M.M., D.M.A., University of Southern California
- Cornel, Megan (2020)  
*Biology*  
B.S., M.S., California State University, Fresno
- Coronel, Maria (2007)  
*Spanish*  
A.A., Imperial Valley College  
B.A., M.A., California State University, San Diego
- Corsepius, Nicholas C. (2019)  
*Chemistry*  
B.S., Ph.D., University of Maryland College Park
- Cox, Melody (2016)  
*Nursing*  
A.A., El Camino Community College  
B.S.N., California State University, Long Beach  
M.S.N., Gonzaga University
- Crawford, Kathleen (1999)  
*History*  
B.A., California State University, Fresno  
M.A., University of California, Los Angeles
- Crill-Hornsby, Cherylyn (2020)  
*Dean of Instruction, Academic Services and Social Sciences Pathways Division*  
A.A., Fresno City College  
B.A., M.A., California State University, Fresno

- Crocket, Karen (1998)  
*English*  
B.A., M.A., California State University, Fresno
- Crooks, Elizabeth, (2015)  
*Medical Assisting*  
B.A., State University of New York at Plattsburgh  
M.A., Alliant University
- Cuevas, Monica (2014)  
*Dean of Students, Counseling and Guidance*  
B.A., California State University, Fresno  
M.S., National University
- Curtis, Carol (1994)  
*Mathematics*  
B.A., M.A., Ed.D., California State University, Fresno
- Dana, Julie (1999)  
*Music*  
B.A., San Diego State University  
M.Mus.Ed., University of Northern Colorado
- Dancy, Karen (2008)  
*Business & Technology*  
B.S., California Polytechnic University, Pomona  
M.B.A., DeVry University
- Davey, Jonathan (2011)  
*Culinary Arts*  
A.O.S., Le Cordon Bleu  
B.S., Brigham Young University
- Davies, Karen (2008)  
*English*  
B.A., University of California, San Diego  
M.F.A., Brown University
- Davis, Theophilus (2005)  
*Welding Technology*  
A.S., Austin Community College
- Day, Diana (2009)  
*Respiratory Care*  
A.S., Tulsa Junior College  
B.S., M.B.A., University of Phoenix
- Deasy, Sara P. (2019)  
*Photography*  
A.A., Fresno City College  
B.A., M.A., California State University, Fresno
- De Freitas, Diane (2008)  
*Economics*  
A.A., American River  
B.S., M.A., California State University, Hayward
- DeKlotz, Olena (2013)  
*English*  
B.A., Pedagogical College, Kyiv, Ukraine  
M.A., University of Ukraine  
M.A., California State University, Fresno
- DeKruif, Linda (1998)  
*Women's Studies, Psychology*  
B.A., M.A., California State University, Fresno
- Denis-Arrue, Nuria M. (2005)  
*Biology/Microbiology*  
B.A., M.A., California State University, Fresno
- DeVoe-Peterson, Robert (2001)  
*Computer Information Technology*  
B.S., M.B.A., California State University, Fresno
- Dorn, Lawrence S. (1989)  
*Mathematics, Developmental Math*  
B.A., California State University, Fresno  
M.B.A., California State University, Fresno
- Dowis, Hawkins (2007)  
*Biology*  
B.A., Pepperdine University  
M.S., California State University, Fullerton
- Duran, Jaime (2020)  
*Director, Veterans Resource Center*  
B.A., National University  
M.S., California State University, Fresno  
Ed.D., Liberty University, Lynchburg
- Duarte, Caleb (2018)  
*Art, Sculpture*  
B.F.A., San Francisco Art Institute  
M.F.A., School of the Art Institute of Chicago
- Duarte, Sonia (2020)  
*Nursing*  
A.S., A.A., Fresno City College  
B.S., M.S., University of Phoenix
- Dunklin, Marianne (2001)  
*Business Administration/Marketing*  
B.S., M.B.A., Creighton University  
Ph.D., University of Kansas
- Dustin, Ron (1996)  
*Accounting*  
A.A., Fresno City College  
B.S., M.B.A., California State University, Fresno
- Eizadiboroujeni, Farrokh (2019)  
*Communication Arts*  
B.A., M.A., California State University, Fresno
- Epperson, Tamara (2010)  
*Accounting*  
B.S., California State University, Fresno  
M.F.A., National University
- Erickson, Mark (2016)  
*Industrial Mechanic*
- Erven, Milton "Chuck" (1999)  
*Theatre Arts*  
B.S., Eastern New Mexico  
M.A., University of Maryland
- Ezaki, Gretchen (2010)  
*Nursing*  
B.S., Pacific Lutheran University  
M.S., California State University, Fresno
- Fernandez, Kathleen (2016)  
*Criminology*  
B.S., M.S., California State University, Fresno
- Ferrer, Sharon (1995)  
*Spanish*  
B.A., M.A., California State University, Fresno
- Fief, Gary (2016)  
*Director, Police Academy*  
B.S., M.A., California Coast University
- Fisher, Jessica (2015)  
*Adaptive English*  
A.A., Fresno City College  
B.A., M.S., California State University, Fresno
- Fletcher, Alex (2018)  
*Physical Education*  
A.A., Fresno City College  
B.A., University of Lethbridge  
M.A., Fresno Pacific University
- Fletcher, Eric (1999)  
*Communication, Forensics*  
B.A., M.A., California State University, Fresno

- Florence, Christine A. (2009)  
*Nursing*  
A.D.N., DeAnza College  
B.S.N., M.S.N./Ed., University of Phoenix
- Flores, Moses (2019)  
*Construction*  
A.S., Fresno City College  
B.S., California State University, Fresno
- Ford, Keith (2020)  
*English*  
A.A., Fresno City College  
B.A., M.A., California State University, Fresno  
M.A., University of California, Berkeley
- Ford, Kiersti R. (2019)  
*Geology*  
B.S., M.S., California State University, Fresno
- Forestiere, Marc C. (1996)  
*Computer Information Technology*  
B.S., California State University, Sacramento  
M.A., Fresno Pacific College
- Garcia-Lupian, Sonia (2008)  
*Counselor*  
B.A., M.S.W., California State University, Fresno
- Gaxiola, Thomas J. (2001)  
*Director of EOPS/CARE*  
B.S., M.A., California State University, Fresno
- Germond, Oliver (2001)  
*Physical Education*  
B.S., California State University, Northridge  
M.S., National University
- Gilbert, Michael (2004)  
*Biology*  
B.Sc., University of Central England  
Ph.D., Leeds, School of Physiotherapy, UK
- Gilmore, Paul C. (2004)  
*History*  
B.A., Furman University  
M.A., University of Wisconsin, Milwaukee  
M.S., Georgia Institute of Technology
- Goishi-Bessey, Lilli (2019)  
*Student Health Services Coordinator*  
B.S., D.N.P., California State University, Fresno  
M.S., Fresno Pacific University
- Goldsmith, Carole (2016)  
*President*  
B.A., California State University, Fresno  
M.S., National University, Fresno  
Ed.D., California State University, Fresno and University of California, Davis
- Gomez Daglio, Liza (2021)  
*Biology*  
B.S., Universidad Autonoma de Baja California Sur, LaPaz  
M.S., Centro Interdisciplinario de Ciencias Marinas IPN, La Paz  
Ph.D., University of California, Merced
- Gonzales, Janine (2015)  
*Counselor*  
A.A., Fresno City College  
B.A., M.S., California State University, Fresno
- Gonzalez, Eileen (2000)  
*Nursing*  
B.S.N., M.S.N., California State University, Fresno
- Goodson, Cheryl (2015)  
*Education*  
B.A., M.A., California State University, Fresno
- Green, JoEllen (2016)  
*Decision Science*  
B.S., M.S., University of California, Riverside  
M.S., Capella University
- Gruet, Karin (2005)  
*Chemistry*  
Licence, Maitruse, DEA Chemistry, Univasile Paul Sabatier, France  
M.S., Ph.D., Yale University
- Guajardo, Ricco (2020)  
*Construction*  
A.A., B.A., International Apostolic Bible College, Fresno  
A.S., Fresno City College
- Guffy, L. Zay (2004)  
*Developmental English*  
A.A., Fresno City College  
B.A., M.F.A., California State University, Fresno
- Gutierrez-Osborne, Virginia (2005)  
*Biology*  
B.A., M.A., California State University, Los Angeles  
M.A., California State University, Fresno
- Gutierrez-Sauceda, Nancy M. (2005)  
*Sociology*  
B.A., California State University, Fresno  
M.A., University of Wisconsin
- Guzman, Juan (2013)  
*English*  
B.A., M.F.A., California State University, Fresno
- Hahn, Timothy (2020)  
*Police Academy*  
B.S., University of Phoenix  
M.P.A., California State University, Fresno
- Halderman, Doug (2021)  
*Construction*  
A.A., Fresno City College  
B.Arch., California Polytechnic State University, San Luis Obispo
- Hall, Lataria (2018)  
*Vice President of Student Services*  
A.A., College of the Sequoias  
B.S., M.S., California State University, Fresno  
Ed.D., Northcentral University, Prescott
- Harris, Stephanie (2007)  
*Counselor*  
A.A., Fresno City College  
B.A., M.A., California State University, Fresno
- Hart, Robyn R. (1997)  
*Business & Technology*  
A.S., Merced Junior College  
B.S., California State University, Fresno  
M.B.A., National University
- Haskell, Marc C. (1999)  
*Decision Science*  
B.A., California State University, Fresno  
M.B.A., National University
- Haynes, Robert (2021)  
*Physical Education/Basketball Coach*  
A.S., Porterville College  
B.A., Chapman University, Orange  
M.A., Fresno Pacific University
- He, Jiandong (Jin) (1999)  
*Mathematics*  
B.S., Jilin University, Peoples Republic of China  
M.S., California State University, Fresno

- Henderson, Caleb (2015)  
*Art*  
B.F.A., Utah Valley University  
M.F.A., Tulane University
- Henderson, Sean (2010)  
*Dean of Student Services, EOPS*  
B.A., M.A., California State University, Fresno
- Henkle, Charles (2017)  
*Coordinator, Police Academy*  
B.S., California State University, Fresno
- Henkle, Jameson (2021)  
*Geology*  
B.S., University of California, Santa Barbara  
M.S., Colorado State University, Fort Collins
- Hentzler, Jerry (1999)  
*Adaptive Ornamental Horticulture*  
B.S., Kansas State University
- Hernandez, Maria (2013)  
*Automotive Technology*  
A.S., Fresno City College
- Hernandez, Nicholas R. (2019)  
*Political Science*  
B.A., San Francisco State University  
M.A., California State University, Fresno
- Herren, Brett (2007)  
*Mathematics*  
B.S., MS., California Polytechnic, San Luis Obispo
- Herrick, Lee (1997)  
*Developmental English*  
B.A., M.A., California State University, Stanislaus
- Hess, Shivon (2021)  
*Librarian*  
B.A., University of North Florida, Jacksonville  
M.S., Florida State University, Tallahassee
- Hester-Haynes, Juanita (2016)  
*Mathematics*  
A.S., Chabot College  
B.A., M.A., California State University, Fresno
- Heyne, Bridget (2001)  
*Nursing*  
A.A., Reedley College  
B.S., University of California, Los Angeles  
A.D.N., Forest Park Community College  
M.S.N., California State University, Fresno  
Ed.D., California State University, Fresno
- Hiebert, Margaret P. (2005)  
*Developmental English*  
A.A., Reedley College  
B.A., M.A., California State University, Fresno  
Ph.D., State University of New York
- Hill, Bruce (2007)  
*Criminology*  
B.A., Occidental College  
J.D., University of California, Los Angeles
- Hodges, Cynthia (1990)  
*American Sign Language*  
B.S., Gallaudet College  
M.S., University of Arizona
- Holland, Nancy (2001)  
*Business Administration/Marketing*  
A.S., College of the Sequoias  
B.A., California State University, Fresno  
M.S., Chapman University
- Hood, Brett (2006)  
*Nursing*  
B.S., California State University, Fresno  
M.B.A., National University
- Howard, Jeanice (2013)  
*Dental Hygiene*  
A.S., Fresno City College  
B.A., M.A., Fresno Pacific University
- Huneault-Schultze, Sylvie (2001)  
*English for Multi-Lingual Students*  
A.A., Cape Cod Community College  
B.A., University of Massachusetts, Boston  
M.A., Monterey Institute of International Studies
- Hwang, Won Hoi (2019)  
*Geology/GIS*  
B.S., Konkuk University  
M.S., Marshall University  
Ph.D., Virginia Polytechnic Institute and State University
- Islas, Matthew (2019)  
*Coordinator, Extending the Classroom*  
A.A., Fresno City College  
B.A., M.A., California State University, Fresno
- Jamison, Gregory (1997)  
*Mathematics*  
B.A., M.A., California State University, Fresno
- Janzer, Haley (2021)  
*Health and Physical Education/Softball Coach*  
B.S., M.A., California State University, Fresno
- Jauregui, Enrique (2000)  
*SLO/Assessment Coordinator*  
B.A., M.A., California State University, Fresno
- Jeffcoach, Daniel (2017)  
*Biology*  
B.S., Cal Poly, San Luis Obispo  
M.S., California State University, Fresno
- Jeffress, Charles (2021)  
*Welding*  
A.S., Fresno City College
- Johansson, Carl A. (1999)  
*Biology*  
A.A., Fresno City College  
B.S., California State University, Fresno  
M.S., Brigham Young University
- Johnson, Derrick (2020)  
*Director, Athletics*  
B.A., University of South Carolina  
M.S.S., Unites States Sports Academy
- Johnson, Gerard (2015)  
*Counselor*  
B.A., California State University, Fresno  
M.A., San Jose State University
- Johnson, Mikki  
*Director of Financial Aid*  
M.B.A., California State University, Fresno
- Jones, Tiffany (1997)  
*Mathematics*  
B.A., M.A., California State University, Fresno
- Joseph, James (1999)  
*Political Science*  
B.A., M.A., California State University, Fresno  
Ph.D., University of California, Riverside
- Kamimoto, Martin S. (1996)  
*Automotive Technology*  
A.S., Fresno City College  
B.S., M.S., California State University, Fresno

- Kawagoe, Jodi (2015)  
*Chemistry*  
B.S., Iowa State University  
M.A., University of North Carolina at Chapel Hill
- Kelley, Monique (2001)  
*Accounting*  
B.A., Morris Brown College  
M.P.A., Georgia State University
- Kerfoot, Mark (2015)  
*Physics*  
B.S., California State University, Sacramento  
B.A., University of California, Davis  
Ph.D., University of California, Merced
- Keysaw, Paul (2006)  
*Physical Education*  
B.A., M.A., California State University, Bakersfield
- Khal, Christopher (2019)  
*Kinesiology, Health and Sports Medicine*  
B.S., California State University, Fresno  
M.A., Fresno Pacific University
- Khan, Kherstin (2011)  
*Communication*  
B.A., M.S., California State University, Fresno
- Kirby, James (2008)  
*Human Services*  
A.A., Ventura College  
B.A., M.S.W., California State University, Fresno
- Kirk, Karla (2011)  
*African-American Studies*  
B.A., M.A., Fresno Pacific University
- Kobashigawa, Linda (2015)  
*Librarian*  
B.A., California State University, Fresno  
M.L.S., University of California, Los Angeles
- Lane, Russel K. (2019)  
*Electrical Systems Technology*  
A.A., Fresno City College  
B.S., University of Phoenix  
M.B.A., California State University, Fresno
- Leach, Rachel L. (2019)  
*Biology*  
B.S., M.S., California State University, Fresno
- Lee, Bryan (2015)  
*Air Conditioning*  
B.S., Western Governors University
- Lewallen, Jennifer (2017)  
*Communication Arts*  
B.A., University of California, Santa Barbara  
M.A., Pepperdine University  
Ph.D., University of Missouri
- Lewallen, Robert (2017)  
*Air Conditioning*  
A.A., A.S., Fresno City College  
B.S., California State University, Fresno
- Lewis, Apryl (2021)  
*English*  
B.A., Ph.D., Texas Tech University  
M.A., Texas A&M University
- Lewis, Deborah (2007)  
*Child Development*  
A.A., Fresno City College  
B.A., National University  
M.A., California State University, Fresno
- Lewis, Keisha (2021)  
*Director, Nursing*  
B.S., M.S., University of Phoenix
- Linder, Colby (2001)  
*Biology*  
B.A., M.A., California State University, Fresno
- Loffler, German (2020)  
*Anthropology*  
B.A., University of California, Santa Barbara  
M.A., Washington State University, Pullman  
Ph.D., University of California, Riverside
- Loftis, Darlene (1991)  
*High Tech Center*  
B.A., California State University, Fresno  
M.A., Fresno Pacific College
- Lopes, Joao (2021)  
*Welding*  
B.S., California State University, Fresno  
M.Agr.Ed., California Polytechnic State University, San Luis Obispo
- Lopez, Donald F. (1995)  
*Vice President of Instruction*  
B.S., M.B.A., California State University, Fresno
- Lozano, Alicia (2008)  
*Nursing*  
L.V.N., Clovis Adult School  
A.D.N., Fresno City College  
B.S.N., M.S.N., California State University, Fresno
- Lucckesi, Paul (2018)  
*Music*  
B.A., California State University, Fresno  
M.A., Sam Houston State University
- Lum, Richard (2020)  
*Coordinator, Fire Academy*  
A.S., Fresno City College
- Luna, Cynthia (2001)  
*Dean of Instruction, Academic Services and Fine, Performing, and Communication Arts Pathways Division*  
A.A., Moorpark College  
B.A., M.A., California State University, Fresno
- Mac Leod, Susan (2019)  
*Biology*  
A.A.S., Lichtenberg-Oberstufengymnasium  
B.S., Freie Universität Berlin  
M.A., City College of New York
- Magnia, Martha (2008)  
*Child Development*  
B.S., M.A., California State University, Fresno
- Mannon, Kayla (2014)  
*Counselor*  
B.A., California State University, Fresno  
M.S., National University
- Maroot, Nereyda (1999)  
*Spanish*  
B.A., M.A., California State University, Fresno
- Marquez-Ramirez, Martina (2020)  
*Child Development*  
B.S., University of California, Davis  
M.A., California State University, Fresno
- Mathis, Jonathan (2020)  
*Photography Technology/Graphic Communications*  
B.A., University of California, Berkeley  
M.A., California State University, Fresno

- Martinez, Brandi (2019)  
*Nursing*  
B.A., B.S., M.S., California State University, Fresno
- Martinez, Ernie  
*Director of Student Activities*  
Ph.D., Alliant University
- Martinez, Robert II (2000)  
*Electrical Systems Technology*  
B.S., California State University, Fresno
- Martinez, Todd (1999)  
*Psychology*  
B.A., M.A., California State University, Fresno  
Ph.D., University of Connecticut
- Mason, Amanda (2020)  
*Communication Arts*  
A.A., Merced Community College  
B.A., M.A., California State University, Fresno
- Mazzoni, Amie (2004)  
*Biology*  
B.A., M.A., California State University, Fresno
- McCollam-Martinez, Christina (2017)  
*Theatre Arts Scenic/Lighting Design*  
A.A., Sierra College  
B.A., California State University, Stanislaus  
M.F.A., University of California, Davis
- McCollough, Mark D. (1999)  
*Computer Aided Design/Computer Aided Manufacturing CAD/CAM*  
A.A., Hartnell College  
B.A., California State University, Long Beach
- McDonald, Travis (2015)  
*Mathematics*  
B.A., M.A., California State University, Fresno
- McLeod, Todd (2001)  
*Computer Information Technology*  
B.A., University of California, Santa Cruz  
M.B.A., California State University, Fresno
- McManus, Shirley (1992)  
*Dean of Instruction, Mathematics, Science and Engineering Division*  
B.S., M.A., California State University, Fresno
- McMichael, John (2016)  
*Humanities*  
B.A., The Master's College  
M.A.T., Fuller Theological Seminary M.Div., Golden Gate Baptist Theological Seminary  
M.A., Ph.D., University at Albany, SUNY
- Mendoza, Matthew (2019)  
*Respiratory Care/Allied Health*  
A.S., San Joaquin Valley College  
A.S., Reedley College  
B.S., California State University, Fresno  
M.S., Northeastern University, Boston
- Mimura, Stacie (2014)  
*Communication Arts*  
B.A., M.A., California State University, Fresno
- Mitchell-Carroll, Nancy (2006)  
*American Sign Language*  
A.S., Northwestern Connecticut Community College  
B.S., University of Utah  
M.S., California School of Professional Psychology
- Mizner, Keith (2006)  
*Accounting*  
A.A., College of the Sequoias  
B.S., M.S., California State University, Fresno
- Mohle, Dennis I. (2004)  
*Computer Information Technology*  
Air Force Academy  
M.S., West Coast University
- Montano, Samuel (2019)  
*Coordinator, Psychological Services*  
B.A., University of Nevada, Las Vegas  
Ph.D., Alliant University
- Mosette, Mary Beth (2017)  
*Director CalWORKs*  
B.S., Southeast Missouri State University  
M.A., California State University, Fresno
- Munoz, Evelin (2021)  
*Biology*  
A.A., College of the Sequoias  
B.S., M.S., California State University, Fresno
- Mushibe, Eliud (2018)  
*Chemistry*  
B.S., University of Nairobi  
M.S., University of Botswana  
Ph.D., Binghamton University
- Natal, Lori (2008)  
*Counselor*  
A.A., Fresno City College  
B.A., M.S., California State University, Fresno
- Navarro, Bernard M. (2005)  
*Sociology*  
A.A., Fresno City College  
B.A., California State University, Fresno  
M.A., Ph.D., University of Oregon
- Nelson, Gretchen (2009)  
*Nursing*  
B.S.N., Washington State University  
M.N., University of California at Los Angeles
- Nelson, Rebecca (2007)  
*Business & Technology*  
A.A., Reedley College  
B.A., Fresno Pacific University  
M.B.A., National University
- Nichols, Cheryl (2020)  
*College Nurse*
- Norton, Kristen (2019)  
*English*  
B.A., M.Ed., Texas Christian University  
M.F.A., California State University, Fresno
- Oaks, Scott (2007)  
*Radiologic Technology*  
A.S., Fresno City College  
B.S., California State University, Fresno  
M.S., National University
- Ochs, Raquel (2005)  
*Child Development*  
B.S., California State University, Fresno  
M.A., Pacific Oaks College
- Ockey, Debbie (1995)  
*Linguistics/English for Multi-Lingual Students*  
B.A., M.A., California State University, Fresno
- Olsen, Rodney G. (2002)  
*Biology*  
B.S., M.S., California State University, Fresno
- O'Neil, Terrence (2017)  
*Criminology*  
B.S., M.S., California State University, Fresno

- Orfi, Nihal (2021)  
*Engineering*  
M.Sc., Ph.D., Virginia Polytechnic Institute & State University, Blacksburg
- Pacheco, Joanne (2001)  
*Dental Hygiene*  
A.S., Fresno City College  
B.A., Fresno Pacific University  
M.A., Alliant International University
- Pankratz, Aaron (2008)  
*Economics*  
B.A., M.P.P., Pepperdine University
- Parish, Max G. (2019)  
*Philosophy*  
A.S., Reedley College  
B.A., University of Illinois, Springfield  
M.A., Ph.D., University of Oklahoma
- Parker, Joshua (2015)  
*Biology*  
B.S., California State University, Stanislaus  
M.S., Ph.D., University of Wyoming
- Patterson, Teresa (2014)  
*Communication*  
B.A., Fresno Pacific University  
M.A., California State University, Fresno  
Ed.D., California State University, Fresno and University of California, Davis
- Patton, Michelle (2008)  
*English*  
A.A., Fresno City College  
B.A., M.F.A., California State University, Fresno
- Pimentel, Robert (2018)  
*Vice President of Educational Services and Institutional Effectiveness*  
A.A., West Hills College  
B.A., Ed.D., California State University, Fresno  
M.A., California State University, Bakersfield
- Pinkard, Joyce (1997)  
*Spanish*  
B.A., M.A., Mississippi State University
- Polanowski, Craig P. (1991)  
*Graphic Communications*  
A.A.S., Brookdale Community College, N.J.  
B.S., Trenton State College, New Jersey  
M.Ed., University of Massachusetts
- Porteous, Scott (2001)  
*Biology*  
B.A., M.A., California State University, Fresno
- Potter, Sally (2013)  
*English for Multi-Lingual Students*  
B.A., M.A., California State University, Fresno
- Prandini, Kellen (2016)  
*Anthropology*  
B.A., Loyola Marymount University  
M.A., San Francisco State University
- Preston-Smith, Julie (2002)  
*Counselor*  
B.A., University of California, Irvine  
M.S., California State University, Long Beach
- Putman, Dale (2018)  
*Maintenance Mechanic*  
A.A., Fresno City College  
B.S., California State University, Fresno
- Quintana, Monique (2019)  
*English*  
A.A., Fresno City College  
B.A., M.F.A., California State University, Fresno
- Radnejad, Forouzandeh (2005)  
*Counselor*  
B.A., Esfahan University, Iran  
M.S., California State University, Fresno
- Ragsdale, Michael (2017)  
*Physical/Natural Science*  
B.S., M.S., California State University, Fresno
- Ramirez, Graciela (1996)  
*Counselor*  
B.A., M.A., California State University, Fresno
- Ramirez, Raymond (2019)  
*Director, Student Equity and Success*  
B.A., M.A., California State University, Fresno  
Ed.D., San Diego State University
- Ramos Jimenez, Denia (2020)  
*Spanish*  
A.A., Orange Coast College  
B.A., M.A., California State University, Fullerton
- Ramos, Loretta (1994)  
*Communication*  
B.A., University of Southern California  
M.A., California State University, Fresno  
J.D., San Joaquin College of Law
- Razee, Alan (2008)  
*Communication*  
B.A., California Polytechnic University, San Luis Obispo  
M.A., Ph.D., University of Washington
- Redondo, Emily (2021)  
*Photography/Graphic Communications*  
A.A., A.S., Fresno City College  
B.A., California State University, Fresno
- Reyes, Jesus (2011)  
*Physical Education*  
A.A., Mt. San Antonio College  
B.A., San Diego State University  
M.A., St. Mary's College
- Reynoso, Bernardo (2018)  
*Director of TriO Programs*  
B.A., California State University, Fresno
- Riley, David (2001)  
*Electrical Systems Technology*  
B.S., M.S., California State University, Fresno
- Risch, Krystin (2017)  
*Communication Arts*  
B.A., M.A., California State University, Fresno
- Rivera, Chelsea (2021)  
*Medical Assisting*  
A.S., West Hills College
- Rivera, Ricardo (2016)  
*Art*  
B.F.A., M.F.A., San Francisco Art Institute
- Roblee, Kieran (2016)  
*Physical Education*  
A.A., Santa Barbara City College, Fresno City College  
B.A., California State University  
M.A., Fresno Pacific University
- Rosendahl, Douglas (2017)  
*Auto Collision Repair Technology*
- Rubalcaba, Jacquelyn (2015)  
*Counselor for Deaf and Hard of Hearing and other Disabilities*  
B.A., M.S., California State University, Fresno

- Rutishauser, Brian (1999)  
*History*  
B.A., University of Dayton  
M.A., Ph.D., Ohio State University
- Ryan, James (1991)  
*Mathematics*  
A.A., Chabot College  
B.S., M.S., California Polytechnic State University, San Luis Obispo
- Ryska, Kelsey S. (2019)  
*Mathematics*  
B.A., Fresno Pacific University  
M.S., California Polytechnic State University, San Luis Obispo
- Saiz, Sallie (2014)  
*English*  
A.A., Fresno City College  
B.A., M.A., M.F.A., California State University, Fresno
- Samra, Sandi (2004)  
*Counselor*  
B.A., California State University, Fresno  
M.S., National University
- Sanders, Eric (2016)  
*Tutorial Center Coordinator*  
B.A., Duke University Master of Exercise and Sports Sciences, University of Florida, Gainesville M.S., Capella University
- Sandhu, Sukhchain (2017)  
*Nursing*  
B.S., M.E., Punjabi University, Patiala  
B.E., M.A., Panjab University, Chandigarh  
M.S., California State University, Fresno
- Sangha, Gurminder (2019)  
*Dean of Instruction, Educational Services and Pathway Effectiveness*  
A.S., Fresno City College  
B.S., M.B.A., California State University, Fresno
- Santos, Geraldine (1999)  
*Counselor*  
B.A., M.A., California State University, Fresno
- Sarkisian, Tiffany (2021)  
*Communication Arts*  
A.A., Reedley College  
B.A., Fresno Pacific University  
M.A., California State University, Fresno  
Ed.D., George Fox University
- Scheid, Elizabeth (2020)  
*English*  
B.A., M.A., California State University, Fresno
- Scheidt, Richard (1997)  
*Physical Education*  
B.S., San Francisco State University  
M.A., California State University, Fresno
- Schmalle, Robert C. (2005)  
*Business Administration/  
Business Law*  
A.A., Fresno City College  
B.A., Fresno Pacific University  
J.D., San Joaquin College of Law
- Schock, Kathleen (2020)  
*Journalism*  
B.A., University of California, Los Angeles  
M.A., University of California, Berkeley  
Ed.D., California State University, Fresno
- Scott, Daniel J. (2005)  
*Communication/Assistant  
Forensics Coach*  
A.A., Fresno City College.  
B.A., California Polytechnic University, San Luis Obispo  
M.A., California State University, Fresno
- See, Charles (2015)  
*Automotive Collision Repair (CTC)*  
A.A., Fresno City College
- Semien, Kenneth (2005)  
*Counselor*  
B.S., Mcneese State University, Louisiana  
M.S., National University, Fresno
- Shirey, Melinda (2006)  
*Business & Technology*  
B.A., M.A., Fresno Pacific University
- Shoemaker, David M. (2018)  
*Counselor/Coordinator, Transfer Center*
- Shultz, Joseph (1996)  
*Radiologic Technology*  
B.S., California State University, Fresno  
M.Ed., National University
- Silva, Leslie (2001)  
*Counselor, Disabled Students  
Programs and Services*  
A.A., Kings River Community College  
B.A., M.S., California State University, Fresno
- Silvas, Shushanek (2019)  
*Coordinator, Reading & Writing Center*  
B.A., M.A., National University  
Ph.D., Northcentral University, Prescott Valley
- Slater, Emilee  
*Director, College Relations and Outreach*  
B.A., M.A., Fresno Pacific University
- Slaton, Rebecca L. (1991)  
*Psychology*  
B.A., California State University, Fresno  
M.S., Ph.D., University of California, Santa Cruz
- Smith, Lorraine M. (2005)  
*Dean of Instruction, Allied Health, Physical Education and Athletics*  
B.A., Harvard University  
M.B.A., National University
- Snyder, Stephanie (2020)  
*English*  
B.A., M.F.A., California State University, Fresno
- Solberg, Eric (1999)  
*Physical Education*  
B.S., California State University, Fresno  
M.S., U.S. Sports Academy
- Sosa, Susana L. (2005)  
*Art History*  
B.A., California State University, Fresno  
M.A., Stanford University
- Soto, Ernestina (2010)  
*Nursing*  
B.S.N., M.S.N., California State University, Fresno
- Soublet, Monica (2021)  
*Child Development*  
B.S., M.A., California State University, Fresno
- Sousa, Daniel J. (1992)  
*Apprenticeship*  
A.A., Fresno City College  
B.S., M.S., California State University, Fresno
- Spohrer, Nicholas (2006)  
*Art, Printmaking*  
B.A., University of California, Santa Cruz  
M.F.A., University of Nebraska



- Spomer, Kalisha (2019)  
*Counselor*  
B.A., California State University, Long Beach  
M.S.W., California State University, Fullerton
- Starry, Matthew (2021)  
*Automotive Technology*  
A.S., Fresno City College
- Stavytska-Barba, Marina (2015)  
*Chemistry*  
A.S., Merced College  
B.S., East Ukrainian National University  
B.S., California State University, Stanislaus  
Ph.D., University of California, Merced
- Steeley, Jodie (2016)  
*Director of Distance Education*  
A.A., Modesto Junior College  
B.A., California State University, Stanislaus  
M.A., California State University, Sacramento  
Ph.D., Capella University
- Stehr, McKayla (2020)  
*History*  
A.A., Yakima Valley Community College  
B.A., M.A., Central Washington University,  
Ellensburg  
Ph.D., Marquette University, Milwaukee
- Stenger, Kristen (2017)  
*Food & Nutrition*  
B.S., M.S., University of Nebraska-Lincoln
- Stewart, Richard (2001)  
*Biology*  
A.A., College of the Sequoias  
B.A., M.A., California State University,  
Fresno
- Stewart-Magee, Kevin (2015)  
*Art*  
B.F.A., Ohio State University  
M.F.A., California State University, Fullerton
- Strait, Laura (2016)  
*Mathematics*  
B.A., M.A., California State University,  
Fresno
- Stricker, Terrellyn Rhymes (1984)  
*Accounting, Decision Science*  
B.S., M.B.A., California State University,  
Fresno
- Strobel, Amy (2020)  
*American Sign Language*  
B.A., California State University, Fresno  
M.S., University of North Florida,  
Jacksonville
- Sunahara, Beau (2021)  
*Automotive Technology/Automotive  
Mechanic*  
A.S., Fresno City College  
B.S., California State University, Fresno
- Tackett, Patrick (2017)  
*Counselor, Disabled Students Programs  
& Services*  
B.A., C.A.S., M.S., M.F.A., California State  
University, Fresno
- Takeda, Michael (2014)  
*English*  
B.A., Sonoma State University  
M.A., Fresno Pacific University
- Tannen, Jeffery (2008)  
*English*  
B.A., M.F.A., California State University,  
Fresno
- Tarazi, Teresa (2000)  
*English*  
B.A., M.A., California State University,  
Fresno
- Teeple, John (2011)  
*Geography*  
B.A., M.A., University of Kansas
- Temmerman, Simon (2011)  
*Mathematics*  
B.A., M.A., California State University,  
Fresno
- Thepphavong, Khamphon (2014)  
*Counselor*  
A.A., Fresno City College  
B.A., M.A., California State University,  
Fresno
- Thomas, Fred (2017)  
*Dental Hygiene*  
A.A., A.S., Fresno City College  
B.S., California State University, Fresno  
M.S.A., California State University, Bakers-  
field
- Thomas, Jason (2021)  
*Biology*  
B.S., M.S., California State University,  
Fresno
- Thornburgh, James (2021)  
*Computer Aided Drafting & Design*  
A.A., A.S., Sierra College, Rocklin  
B.S., M.S., Ed.D., California State University,  
Fresno
- Thurston, Gerald (2003)  
*Communication*  
B.A., M.A., California State University,  
Fresno
- Tibstra, Robert (2017)  
*Biology*  
A.A., Cabrillo College  
B.S., M.S., California State University,  
Fresno
- Trelawny, Dillon (2016)  
*Physics/Astronomy*  
B.S., James Madison University, Harrison-  
burg, VA  
M.S., California State University, Fresno
- Trevino, Julio (2013)  
*English*  
B.A., M.F.A., California State University,  
Fresno
- Trezza, Mark J. (2004)  
*Political Science*  
B.A., University of California, Davis  
M.A., California State University, Sacra-  
mento
- Tuttrup, Richard J. (2000)  
*Accounting*  
B.A., California State University, Long Beach  
M.B.A., California State University, Fresno
- Uvarov, Catherine (2016)  
*Chemistry*  
B.S., Ph.D., University of California, Davis
- Valentino, Mary Ann (2004)  
*Psychology*  
B.A., San Diego State University  
Ph.D., California School of Professional  
Psychology
- Vang, Linda (2007)  
*Sociology*  
B.A., Mount Union College  
M.S.W., M.A., University of Pittsburgh  
Ed.D., University of California, Davis/  
California State University, Fresno
- Vellandi, Christian J. (2005)  
*Chemistry*  
A.S., Columbia College  
B.S., M.S., California State University,  
Fresno

- Venezia, Brenda (2020)  
*English*  
B.A., M.F.A., California State University, Fresno
- Vidinoff, John M. (2003)  
*Mathematics*  
B.A., California State University, Fresno  
M.A., Fresno Pacific University
- Villalba, Tabitha (2009)  
*Dean of Instruction, Academic Services and Humanities Pathways Division*  
B.A., M.F.A., California State University, Fresno
- Vinicor, Melinda (2009)  
*Sociology*  
B.A., Pepperdine University  
M.A., San Jose State University
- Visveshwara, Nicola A. (2019)  
*Nursing*  
B.S., University of Southern California  
B.S., California State University, Hayward  
M.S., Marymount University
- Vogel, Pamela (2014)  
*Nursing*  
B.S., St. Louis University  
M.S., Southern Illinois University
- Voth, Joseph (2015)  
*English*  
B.A., M.F.A., California State University, Fresno
- Vue, Kau (2017)  
*Political Science*  
B.A., M.A., California State University, Fresno  
M.A., University of California, Merced
- Waller, Tammie (2005)  
*Computer Information Technology*  
A.S., West Hills College  
B.S., California State University, Fresno  
M.S., National University
- Wasemiller, Peter (2015)  
*Paralegal/Law*  
B.A., Fresno Pacific University  
J.D., San Joaquin College of Law
- Watson, Matthew (2011)  
*Chicano-Latino Studies*  
B.A., California State University, Fresno  
J.D., University of California, Berkeley School of Law
- Wells, Bobbie (2017)  
*Disabled Students Programs & Services*  
M.S., California State University, Fresno
- Wen, Julie (1990)  
*Developmental Mathematics*  
B.Ed., National Taiwan Normal University  
M.A., California State University, Fresno  
M.A., Fresno Pacific College
- Wengerd, Bethany (2008)  
*Anthropology*  
B.A., California State University, Fresno  
M.A., California State University, Fullerton
- Williams, Forrest (2007)  
*Psychology*  
B.A., M.A., California State University, Chico
- Williams, Jacqueline (2017)  
*English*  
B.A., M.F.A., California State University, Fresno
- Williams, Rhonda (1999)  
*Physical Education*  
B.A., Fresno Pacific  
M.A., California State University, Fresno
- Williams, Ria (2015)  
*English*  
B.A., M.F.A., California State University, Fresno
- Williams, Shannon (2021)  
*Librarian*  
B.A., California State University, Fresno  
M.S., San Jose State University  
M.S., California State University, East Bay
- Willis, Karen N. (2019)  
*Mathematics*  
A.S., Fresno City College  
B.A., M.A., California State University, Fresno
- Wilson, Elisha (2018)  
*Music Theory*  
B.A., M.A., California State University, Fresno
- Woods, Matthew (2015)  
*Mathematics*  
B.A., M.A., California State University, Fresno
- Woods, Timothy (2010)  
*Dean of Instruction, Business Division*  
B.A., University of California, Riverside  
M.A., California State University, Fresno  
Ph.D., Walden University
- Wright, Brian L. (2019)  
*Electrical Systems Technology*  
B.S., M.S., California State University, Fresno
- Yang, David (2013)  
*Mathematics*  
B.A., M.A., California State University, Fresno  
Ph.D., University of California, San Diego
- Yang, Jim (2016)  
*Mathematics*  
B.A., M.A., California State University, Fresno
- Yang, Mai (2007)  
*Librarian*  
B.A., California State University, Fresno  
M.A., University of Illinois, Urbana
- Yang, Shoua (2014)  
*EOPS Counselor*  
B.A., M.S., California State University, Fresno
- Yang, Sue (2020)  
*Instructional Designer*  
B.A., University of Wisconsin, Eau Claire  
M.A., Marian University, Fond du Lac
- Yang, Victor Bee (1999)  
*Counselor*  
B.S., University of Nebraska at Omaha  
M.S., National University
- Yann, Chamroeun (2021)  
*Child Development*  
B.A., M.A., California State University, Fresno
- Yates, Seth (2010)  
*Chemistry*  
B.A., Fresno Pacific University  
M.S., California State University, Fresno
- Ybarra, Kerry (2007)  
*Philosophy/Humanities*  
B.A., California State University, Fresno  
M.A., California State University, San Francisco  
M.A., University of Colorado, Boulder
- Zamora, Kenneth C. (1992)  
*Architecture*  
A.A., College of the Sequoias  
B. Arch., B.S., California Polytechnic University, San Luis Obispo
- Zendejas, Frank (2016)  
*Electrical Systems Technology*  
B.S., California State University, Fresno  
Ph.D., University of California, Berkeley

## Classified Professionals

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Erica Abbs <i>Administrative Assistant</i>	Brittany Ballard <i>Senior Program Specialist – Student Services</i>	Johnny Cano III <i>Theater Technical Director</i>
Aaron Acevedo <i>Financial Aid Specialist</i>	Rachel Barcelos <i>Instructional Assistant</i>	Lisa Cartwright <i>Instructional Administrative Assistant</i>
Norma Aguilar <i>Financial Aid Analyst</i>	Arthur Baylon <i>Custodian</i>	Victoria Castro <i>Science Laboratory Coordinator</i>
Eric Aguiniga <i>Custodian</i>	Virginia Beamer <i>Financial Aid Specialist</i>	Frances Catlapp <i>Office Specialist</i>
Enrique Alameda <i>Science Laboratory Coordinator</i>	Joshua Beaulieu <i>Career Technical Education Laboratory Technician</i>	Robert Cawley <i>Audio-Visual Technician</i>
Stephanie Alaniz <i>Administrative Assistant</i>	Lamance Bert <i>Custodian</i>	Steven Centeno <i>Custodian</i>
Horacio Alaniz, Jr. <i>Custodian</i>	Stephanie Bisbee <i>Nursing Skills Laboratory Technician</i>	Dee Cetin-Berber <i>Senior Research and Planning Analyst</i>
Jose Alcorta <i>Custodian</i>	Jocelyne Bonilla <i>Early Childhood Education Associate</i>	David Chacon <i>Custodian</i>
Frank Anaya, III <i>Career Technical Education Laboratory Technician</i>	Kathleen Bonilla <i>Public Information Officer</i>	Fennyann Chan <i>Admissions and Records Specialist</i>
Kristie Andersen <i>Senior Administrative Services Technician</i>	Michael Bourbonnais <i>IT Customer Support Technician</i>	Karine Chatard <i>Instructional Administrative Assistant</i>
Thomas Andrews <i>Utility Worker</i>	William Bowlin <i>Senior IT Customer Support Technician</i>	David Clacher <i>Financial Aid Analyst</i>
Ivy Arana <i>Accounting Technician</i>	Victoria Bowman <i>Program Assistant – Student Services</i>	Cindy Clark <i>Evaluator</i>
Glenn Araki <i>Career Technical Education Laboratory Technician</i>	Anthony Bravo <i>Outreach Specialist</i>	Joyce Clark <i>Administrative Assistant</i>
Joanna Arenas <i>Administrative Assistant</i>	Kathy Braze <i>Program Assistant – Career Technical</i>	Nathan Clark <i>IT Customer Support Technician</i>
Jeffrey Arends <i>Program Assistant – Career Technical</i>	Cristina Bremer <i>Director of Marketing and Communications</i>	Nileen Clark <i>Curriculum Assistant</i>
Jamien Armstrong <i>Senior Library Technician</i>	Richard Briones <i>Custodian</i>	Terri Clement <i>Early Childhood Education Associate</i>
Estevan Arroyo <i>Custodian</i>	Rose Brownell <i>Outreach Specialist</i>	Cory Condry <i>Arts Laboratory Technician</i>
Moses Avila <i>Audio-Visual Technician</i>	Marissa Butler <i>Office Assistant II</i>	Mike Coppedge <i>Lead Accounting Technician</i>
Carrie Baize <i>Instructional Administrative Assistant</i>		Alicia Cowan <i>Office Assistant II</i>
		David Cowan <i>Print Services Technician</i>

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Melody Critchfield  
*Budget Technician*

Kendra Cronk  
*Senior Sign Language Interpreter*

Jered Crump  
*Custodian*

Sylvia Cuevas  
*Financial Aid Manager*

Christopher Cupp  
*Office Specialist*

Lilia Danielyan  
*Program Assistant – Career Technical*

Steve DaSilva  
*Horticulture Program Specialist*

LaShun Davis  
*Job Developer*

Elizabeth Davitian  
*Budget Technician*

John DeFore  
*Office Assistant I*

Rigoberto Delgadillo  
*Sign Language Interpreter*

Kristen Del Rosario  
*Senior Sign Language Interpreter*

Julian Delgado  
*IT Customer Support Technician*

Cindy DeSutter  
*Instructional Assistant*

Larry Dickson  
*Utility Worker*

Marta Diliberto  
*Instructional Administrative Assistant*

Gladdey Donsanouphit  
*Deputy Title IX Coordinator*

Andrew Doris  
*Athletic Equipment Manager*

Mirna Duarte  
*Director of Admissions and Records*

Tabitha Dubois  
*Sign Language Interpreter Coordinator*

Cynthia Dunn  
*Job Placement Coordinator*

Megan Elam  
*Executive Assistant*

Mariana Encinas  
*Admissions and Records Assistant I*

Anthony Estrada  
*Custodian*

Richard Estrada  
*Custodian*

George Falcon  
*Custodian*

April Farkas  
*Senior Program Specialist – Career  
Technical*

Leslie Farrell  
*Financial Aid Assistant*

Beth Fields  
*Office Specialist*

Kimberley Fischer  
*Senior Admissions and Records Assistant*

Denise Flores  
*Administrative Assistant*

Melissa Flores  
*Program Specialist – Student Services*

Daniel Foglio  
*Career Technical Education Laboratory  
Technician*

Jeffery Foust  
*Utility Worker*

Jennifer Franklin  
*Instructional Administrative Assistant*

Tammy Gallagher  
*Early Childhood Education  
Associate*

Isaac Gallegos  
*DSP&S Mobility Driver*

Stephanie Gamez  
*Early Childhood Education  
Specialist*

Jeremiah Ganner  
*IT Customer Support Technician*

Lili Gao  
*Senior Research and Planning Analyst*

Claudia Garcia  
*Early Childhood Education Specialist*

Ernesto Garcia  
*Senior Program Specialist – Student  
Services*

Graciela Garcia  
*Food Service Worker*

Jacque Gaston  
*IT Customer Support Technician*

Michael Gerard  
*Alternate Media Specialist*

Maile Glover Martin  
*Senior Program Specialist – Student  
Services*

Rosemary Gomez  
*Accounting Technician*

Frank Gonzales  
*Custodian*

Joseph Gonzales  
*Custodian*

Simon Gonzalez  
*Science Laboratory Coordinator*

John Grasmick  
*Accounting Technician*

Sabrina Gray  
*Office Assistant II*

Alvin Greathouse  
*Custodian*

Nancy Gross  
*Instructional Administrative Assistant*

Ricco Guajardo  
*Career Technical Education Laboratory  
Technician*

Omar Gutierrez  
*Vice President of Administrative Services*

Maria Handy  
*Library Operations Coordinator*

Aaronn Hansen  
*Network Administrator*

Charlotte Harmon  
*Senior Library Technician*

Wilhemina Henderson  
*Office Assistant II*

Virginia Her  
*Budget Technician*

Ze Her  
*Administrative Assistant*

Martin Herb <i>Office Specialist</i>	Aarne Kela <i>Piano Accompanist</i>	Mayra Machain <i>Budget Technician</i>
Abel Hernandez <i>Custodian</i>	Kaylee Kelly <i>Sign Language Interpreter</i>	Tamara Maddox <i>Business Office Manager</i>
Andres Hernandez <i>Director of Admissions and Records</i>	Israel Kinlow <i>Financial Aid Specialist</i>	Javier Madrigal <i>Senior Sign Language Interpreter</i>
Christina Hernandez <i>Office Assistant II</i>	Cathleen Kozielski <i>Budget Specialist</i>	Sunnie Mahavong <i>Admissions and Records Specialist</i>
Monica Hernandez <i>PE/Athletic Equipment Assistant</i>	Charles Kralowec <i>Research and Planning Analyst</i>	Rosemary Mahoney <i>Admissions and Records Specialist</i>
Randal Hernandez <i>Help Desk Technician</i>	Renee Kubo <i>Senior Library Technician</i>	Delia Makel <i>Digital Media and Graphic Designer</i>
Sheng Herr <i>Senior Accounting Technician</i>	Christopher Lang <i>Theatre Technical Manager</i>	Hilary Malveaux <i>Budget Technician</i>
Kellie Higashida <i>Office Assistant III</i>	Ariella Larson <i>Sign Language Interpreter</i>	Josephine Mancillas-Llanos <i>Scholarship Specialist</i>
David Holford <i>Athletic Trainer</i>	Jennifer Laval <i>Director of College Technology Services</i>	Rebecca Manning <i>Admissions and Records Assistant I</i>
Lavell Hopkins <i>Custodian</i>	Mai Lee <i>Senior Admissions and Records Assistant</i>	Eleni March <i>Evaluation Specialist</i>
Josefa Huckeba <i>Program Assistant – Student Services</i>	Joseph Lescoulie <i>Senior IT Customer Support Technician</i>	Janine Marklund <i>Outreach Specialist</i>
Ryan Huynh <i>International Student Services Coordinator</i>	Jo Lewis <i>Administrative Assistant</i>	Christopher Martin <i>Senior IT Customer Support Technician</i>
Jahaziel Ibarra <i>DSP&amp;S Mobility Driver</i>	Melissa Llanes <i>Executive Assistant</i>	Nora Martin <i>Accounting Technician</i>
Markeshia Iverson <i>Instructional Administrative Assistant</i>	Joe Lopez III <i>Lead Custodian</i>	Sean Martin <i>Lead Audio-Visual Systems Specialist</i>
Linda Jackson <i>Senior Library Technician</i>	Lorraine Lopez <i>Office Specialist</i>	Luis Jauregui Martinez <i>Custodian</i>
Fidel Jauregui <i>Custodian</i>	Stephanie Lopez Pedrosa <i>Senior Admissions and Records Assistant</i>	Patricia Martinez <i>Instructional Assistant</i>
Dale Jimenez <i>Accounting Technician</i>	Por Chue Lor <i>Office Assistant I</i>	Tiffany Martinez <i>Early Childhood Education Specialist</i>
Erica Jimenez <i>Evaluator</i>	Benjamin Lozano <i>Digital Media and Graphic Designer</i>	Celia Martinez-Pantoja <i>Office Specialist</i>
Donnie Johnson <i>Athletic Equipment Manager</i>	John Luna <i>Custodian</i>	Mary Mathos <i>Financial Aid Specialist</i>
Marvin Jordan, II <i>Custodian</i>	Rita Luna <i>Office Specialist</i>	Mary Mattern <i>Early Childhood Education Specialist</i>
Sarina, Karr <i>Office Assistant II</i>	Linda Lyness <i>Payroll Technician</i>	Keelin McCabe <i>Executive Assistant</i>

470 College Personnel

Samantha McGregor  
*Senior Admissions and Records Assistant*

Jennifer McKenzie  
*Administrative Assistant*

Mark McNiff  
*Senior Program Specialist – Student Services*

Barbara Mendoza  
*Program Assistant – Student Services*

Tamra Miller  
*Administrative Assistant*

Richard Mora  
*Administrative Assistant*

Jeannie Morgan  
*Budget Technician*

George Mosqueda  
*Instructional Assistant*

Gold Moua  
*Office Specialist*

Jennifer Mtunga  
*Box Office Manager*

Haneen Musleh  
*Sign Language Interpreter*

Jennifer Nassar  
*Accounting Technician*

Elvira Navarro-Arellano  
*Program Specialist – Student Services*

Nathan Newsom  
*Lead Custodian*

Debra Nichols  
*Web Content Engineer*

Laurie Nichols  
*Program Assistant – Student Services*

Mark Nichols  
*Senior IT Customer Support Technician*

Susan Nitzel  
*Professional Development Coordinator*

Kelli O'Rourke  
*Senior Curriculum Analyst*

Amber Olmo  
*Custodian*

Francisco Olvera  
*Custodian*

Christopher Orr  
*Custodial Manager*

Alemario Padua  
*Budget Specialist*

Cynthia Peek  
*Tutorial Assistant*

Denee Perea  
*Program Assistant – Student Services*

Darlen Perez  
*Sign Language Interpreter*

Miguel Perez  
*Custodian*

Joshua Petersen  
*Senior Library Technician*

Maria Petrogonas  
*Early Childhood Education Associate*

Henry Polanco, Jr.  
*Custodian*

Nicole Pondexter  
*Office Specialist*

Ronald Potter, Jr.  
*Utility Worker*

Stephanie Powers-Puahi  
*Administrative Assistant*

Tanya Pryor  
*Budget Specialist*

Carlos Puente, Jr.  
*Custodian Manager*

Kim Quesada  
*Executive Assistant to the President*

Ana Quinata  
*Instructional Administrative Assistant*

Carol Rains-Heisdorf  
*Senior Research and Planning Analyst*

Charles Record  
*Custodian*

Alana Reed  
*Budget Technician*

Hilda Reyna  
*Senior Program Specialist – Student Services*

Erica Riggs  
*Financial Aid Specialist*

Judith Rios  
*Veterans Services Specialist*

Brianna Rivera  
*Program Assistant – Career Technical*

Melody Riversmith  
*Office Specialist*

Andrew Rocha  
*IT Customer Support Technician*

Heather Rodriguez  
*Financial Aid Specialist*

Sarah Rodriguez  
*Senior Admissions and Records Assistant*

Amanda Romero  
*Financial Aid Specialist*

Ryan Rooks  
*IT Customer Support Technician*

Roy Rosa  
*Financial Aid Specialist*

Arisbet Ruiz  
*Financial Aid Analyst*

Harold Russell III  
*Admissions and Records Manager*

Dwight Samuel  
*Custodian*

Miguel Sanchez  
*Utility Worker*

Penny Sandlin  
*Budget Technician*

Delfina Sandoval  
*Program Assistant – Career Technical*

Suzanne Sankey  
*Program Assistant – Career Technical*

Jeffrey Santellano  
*Instructional Computer Laboratory Technician*

Frances Santillan  
*Custodian*

David Scholl  
*Program Assistant – Student Services*

Roland Schreiner  
*Systems Administrator*

Lorraine Sepeda  
*Job Developer*

Ralph Serna <i>Custodian</i>	Patricia Valdez <i>Sign Language Interpreter</i>	Janice Wong <i>Senior Program Specialist – Student Services</i>
Kimeka Simmons <i>Sign Language Interpreter</i>	Ruthann Van Buren <i>Office Specialist</i>	Sara Woody <i>Print Services Technician</i>
Larry Simpson <i>Warehouse Worker</i>	Majru Varughese <i>Science Laboratory Coordinator</i>	Mary Beth Wynn <i>Job Developer</i>
Anthony Slade <i>Custodian</i>	Reyna Velasquez Cortes <i>Admissions and Records Assistant I</i>	Becky Xiong <i>Executive Assistant</i>
Phila So <i>Office Assistant II</i>	Luis Villanueva <i>Custodian</i>	Moua Xiong <i>Senior Library Technician</i>
Susan Soudchantho <i>Admissions and Records Assistant I</i>	Joel Villar <i>Career Technical Education Laboratory Technician</i>	Jennifer Xiong-Moua <i>Program Specialist – Student Services</i>
Eddie Standifer II <i>Custodian</i>	Lisa Vincent <i>Outreach Specialist</i>	Houa Yang <i>Senior Program Specialist – Student Services</i>
Julie Steele <i>Admissions and Records Assistant I</i>	Maribel Viveros <i>Senior Research and Planning Analyst</i>	John Yang <i>Senior Program Specialist – Student Services</i>
Mark Tabay <i>Student Communications Specialist</i>	Wa Vue <i>Nursing Simulations Technician</i>	Neng Yang <i>Custodian</i>
James Taylor <i>Athletic Trainer</i>	Ashley Watkins <i>Athletic Trainer</i>	Pa Nhia Yang <i>Early Childhood Education Associate</i>
Bobbie Tello-Perez <i>Admissions and Records Specialist</i>	Jill Webb <i>Piano Accompanist</i>	Pao Yang <i>Mail Room Worker</i>
Angel Tercero <i>Custodian</i>	Chelsey White <i>Senior Sign Language Interpreter</i>	Erika Zamora <i>Sign Language Interpreter</i>
Meng Thao <i>PE/Athletic Equipment Assistant</i>	Maria Wiget <i>Instructional Assistant</i>	Ramon Zapata <i>Career Technical Education Laboratory Technician</i>
Pamela Tibbet <i>Special Program Specialist – Student Services</i>	Cassandra Wilkinson <i>Office Assistant I</i>	Brittany Zenz <i>Office Specialist</i>
Andrea Torrez <i>Office Specialist</i>	Artie Williams <i>Lead Custodian</i>	
Robert Torrez <i>Assessment Coordinator</i>	Phyllis Willis <i>Administrative Assistant</i>	
Christopher Tripp <i>Senior IT Customer Support Technician</i>	Jonathan Wilson <i>Academic Technology Systems Specialist</i>	
Rosie Castine Tumoine <i>Instructional Administrative Assistant</i>	Rachel Witort <i>Sign Language Interpreter</i>	
Alma Valdes Ochoa <i>Evaluator</i>	Charmaine Wojitas <i>Senior Admissions and Records Assistant</i>	
	Daniel Wong <i>Arts Laboratory Technician</i>	

## Emeritus Faculty

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Aguilar, Luis E. 1985-2014 Automotive Collision Repair (CTC)	Baber, Roberta 1986-2011 Computer Information Technology	Boyd, Robert 1996-2017 Philosophy
Albright, Linda S. 1981-2009 Nurse	Badertscher, Lynn 1994-2017 Communication	Brennan, Jennifer A. 2004-2014 Nurse
Alvarado, Samuel L. 2004-2021 Counselor, Disabled Students Programs & Services	Bates, Robyn L. 1990-2015 Art	Brewer, Melinda 2001-2019 Child Development
Alvarez, Manuel E. 1971-1992 Electronics	Beck, Allen 1974-2008 Anthropology	Brooks, Walter 1970-2008 Counselor
Amaro, Arthur N. 1973-2011 Chicano-Latino Studies, Sociology	Bell, Calvin 1968-1984 Counselor	Brotsis, William 2007-2020 Fire Technology
Andersen, L. LeGrand 1974-1999 Vocal Music	Bell, Edward 1979-1986 Auto Mechanics	Brown, Martin D. 1974-1990 Associate Dean of Instruction, Health Arts and Sciences
Andreen, Kristi 2000-2011 Respiratory Therapy	Bengel, Earl 1968-1997 Engineering	Brown, Richard S. 1964-1986 Geology
Andrews, Robert N. 1971-1996 Automotive Technology, Industrial Education	Bertolani Jr., William J. 1987-2016 Criminology	Brunetti, Pat A. 1982-2004 Nurse
Angarano, Angelo P. 1968-1984 Philosophy, English	Bigham, Craig 1999-2019 Mathematics	Bruns, Paul M. 1958-1990 Chemistry
Arakelian, Charlotte A. 1983-2018 Counselor	Bill, Gerald M. 1970-2008 Sociology	Bugay, Elnora 1995-2016 Nursing
Arredondo, Alfred V. 1975-2008 Counselor	Bingham, Isabell H. 1970-1982 Home Economics	Byrd, Ronald F. 1968-2001 Librarian
Arroyo, Robert F. 1969-1999 Associate Dean of Students, Director, EOP&S	Blackburn, Norma D. 1961-1979 Legal Secretaryship	Byrns, Dennis C. 1995-2011 Fire Technology
Arth, Raymond G. 1977-2010 Photography	Bluth, Gary 1991-2020 Physical Education	Campbell, Lynn 2001-2017 English
Atkinson, Dennis C. 1990-2008 Automotive Technology	Bolt, Sandra B. 1999-2018 Business & Technology	Carlisle, Elizabeth 2005-2007 Speech
Azamber, Eugene C. 1966-2001 Business Administration, Management	Boucher, Richard 1964-1996 Electronic Technology	Carroll, Jean (2001) 2001-2020 English for Multi-Lingual Students
	Bourdet, Malcolm L. 1957-1990 Physical Education	Castagna, Paula 1992-2011 Mathematics



Cerda, Ricarda 2000-2017 Food & Nutrition	Cummings, John H. 1996-2011 Vice President, Admissions and Records	Dougherty, Sara 1955-1981 Physical Education
Cerkueira, Ronald C. 1996-2020 Computer Aided Drafting & Design	Curry, Ruth 1981-1998 Philosophy, English, Humanities	Douty, Douglas A. 1984-2012 Electronic Technology
Chaney, Lisa 2014-2018 Coordinator, Health Services	Dana, Michael E. 1990-2018 Music	Doyland, Russell A. 1961-1983 Accounting
Chavez, Kenneth R. 1988-2020 Counselor	Davy, Thelma L. 1965-1973 English	Drake, Carolyn C. 1978-2013 Dean of Instruction, Health Sciences Division
Cheney, Judith 1999-2016 Dental Hygiene	DeAnda, Carolyn 2010-2021 Photography	Draper, C. Dean 1960-1987 Art
Chow, Richard 1968-1991 Reprographics, Industrial Education	Deeter, Gary 1981-2008 Music	Dzerigian, Steven V. 1987-2008 Photography
Christian, Peter C. 1958-1981 English	DeKoning, Richard M. 1958-1982 Drafting, Mathematics, Architecture, Industrial Education	Eckenrod, Sherian H. 1979-2003 Associate Dean of Instruction, Business Division
Christl, Richard I. 1970-2011 Dean of Instruction, Applied Technology Division	Demanett, Paula 2000-2019 Librarian	Edison, James S. 1997-2019 Coordinator, Police Academy
Cleveland, Sandra 1976-2007 Nursing	Denver, Monta 1986-2019 Dental Hygiene	Edman, Leland M. 1975-1991 Administration of Justice
Colby, Camilla 1969-2007 Spanish	DePry, Ronald N. 1970-1993 Biology	Edwards, Sarah 1998-2020 Health Information Technology
Cole, Wayne 1990-2011 English	DeSantiago-Gomez, Laura 1999-2019 Counselor	Eischen, Clifford 1964-1998 Business Administration, Management
Contreras, Luis A. 1999-2019 English	Dickie, David R. 1965-1996 Drafting, Industrial Education	Elgin, Judy A. 1987-2010 Business and Technology
Cornwell, Gerald D. 1961-1990 Business	Discont, Conrad M. 1963-1994 English, Humanities, Speech	Elgorriaga, Carmen 1970-1994 English, Spanish
Covington, Jeanette A. 1982-2014 Learning Disabilities, English	Dose, Kenneth D. 1971-1999 Physical Education	Elizondo, Tonatiuh 1993-2019 Automotive Mechanics (CTC)
Crider, Andrew B. 1998-2012 Director of Career & Technology Center	Dotts, John 1981-1996 Industrial Education, Construction, Mathematics	Elliott, Jacqueline 1995-2006 Art
Culp, Robbey C. 1995-2010 Chemistry	Doud, Laurel M. 2005-2021 Librarian	Emerling III, Fred M. 1984-2013 Counselor

474 College Personnel

Emerzian, Janice M. 1975-2017 Director of Disabled Students Programs & Services	Gaither, Loren F. 1964-1996 Mathematics	Halls, Thomas H. 2001-2019 Photography
Engel, Kathleen 1980-2008 Nursing	Gaona, Venancio Garcia 1969-1999 Spanish	Hallstone, Kenneth 1968-2002 Psychology
Engstrom, Dale 2001-2016 Music	Garoupa, Clifford 1997-2019 Sociology	Handley, Richard 1955-1980 Associate Dean of Instruction, Occupational Education
Erven, Debra P. 1990-2020 Theatre Arts	Gartman, Grace 1989-2005 Tutorial Resources	Hanson, William F. 1946-1978 Director, Vocational Training Center
Estrada, Gonzolo 1965-1984 English	Gennity, Joseph M. 1996-2019 Biology	Hao, Jian-Min 2006-2021 Dance
Estrada, Joan E. 1964-1989 Accounting	Gibbs, Richard R. 1966-1994 Economics, Psychology	Harmon, Beverlee Jill 1990-2012 Counselor
Ewing, James 1990-2013 English	Glenn, Marilyn R. 2002-2014 Counselor	Haroutunian, Vahack 1971-1996 Mathematics
Farley, Lee 1981-2015 Dean of Students, EOPS	Gonzales, Paul 1989-2007 Radiologic Technology	Harriet, Sydney H. 1970-2012 English, Speech
Farrington, Gerald 1970-2003 History, Political Science	Gose, Kristine 2001-2021 Child Development	Hayden, Layne E. 1999-2007 Automotive Collision Repair
Ferguson, Phillip 1972-1982 Mathematics	Graham, Ronald J. 1987-2005 Criminology	Hendrickson, David H. 1958-1984 Geography, History
Fischer, Laurene J. 1965-1995 Business Administration, Computer Information Technology	Granata, Charity 1985-2018 Communication Arts	Hendry, Harold T. 1966-1984 Business Administration
Fox, Robert E. 1980-2009 Vice President of Students	Green, M. Fred 1962-1984 Engineering	Hernandez, Timothy 2013-2021 Art
Franz, James J. 2000-2008 Economics	Grover, Stanford C. 1966-1977 Counselor	Hibler, Edward B. 1961-1978 Psychology
Frese, Joan 1995-2016 Computer Information Technology	Grover, Stephen C. 1984-2015 Mathematics	Hickman, Katherine 2001-2016 Criminology
Fries, Bobby 1965-1991 Health Education, Track	Guglielmino, Rosemarie Spight 1989-2017 English	Hildreth, Sonya 2007-2010 Dean of Student Services, Counseling and Guidance
Fuller, Pauline M. 1977-2013 Counselor	Gunn, Donald L. 1971-1992 Theatre Arts, Speech	Hill, Jack 1956-1980 Marketing, Advertising
	Hald, Kenneth 1949-1972 Biological Sciences	

Himes, Daniel J. 1987-2017 Electrical Systems Technology	Keen, Derl W. 1975-2001 Child Development	Larson, Donald G. 1964-1999 History
Hiroyasu, Shaw 1975-1996 Automotive Mechanics, Industrial Education	Keller, Charles F. 1977-2013 Adaptive Physical Education	Lasher, Ivan Ward 1971-1992 Associate Dean of Students, Admissions and Records
Hoff, Nancy 1981-2007 Nursing	Kennedy, Harry L. 1984-2005 Journalism, English	Latham, S. E. 1963-1983 Sociology
Holford, Susan 2001-2017 Human Services, Sociology	Khoury, Alexis 1990-2008 English	Leatham, Leneve S. 1959-1974 Marketing, Mathematics
Holstein, George C. 1955-1966 Dean of Admissions & Records	Kim, Daniel E. 1989-2014 Coordinator, Institutional Research	Leon, Godfrey R. 1972-1990 Automotive Technology, Industrial Education
Honda, Lorence 1997-2018 Music	Kimura, Robert H. 1963-1984 Chemistry	LeValley, Aina D. 1961-1972 Vocational Nursing
Hostetler, Robin L. 1979-2011 Geography	King, Charles G. 1958-1990 Electronic Technology, Industrial Education	Lewis, Kristin 1995-2017 English
Hubbard, Greg 2006-2020 Photography	Kirkhart, Jerry L. 1989-2005 Biology	Leyden, Francis J. 1948-1975 Geology
Jansen, Janice R. 1975-2004 Physical Education, Dance	Kizziar, Robert 1999-2012 Art, Ceramics	Liberty, Susan 1976-1999 Director, Fine and Performing Arts, Developmental Education, Honors
Jeanis, Dorothy I. 1969-1995 Business Administration, Management	Klein, Kenneth A. 1968-1999 Architectural Drafting	Liddle, Lee D. 1989-2007 Business & Technology
Jimenez, Joaquin 1988-2004 District Associate Dean of Financial Aid	Koshear, Jeannine 2005-2019 Geography	Lindley, Edward V. 1984-2010 Chemistry
Johal, Sarbjit 1999-2018 Political Science	Krauter, Larry 2008-2017 Photography	Lindsey, Cecil 1976-2011 Electronic Technology
Johnson, Frederick 2008-2021 Police Academy Coordinator	Kriesel, L. Anne 1974-1990 Counseling (Enabler)	Lindstrom, Richard 1994-2016 Director, Police Academy
Johnston, H. Bruce 1966-1996 Biology	Krueger, Rodney L. 1965-1991 Art	Liscano, Tanya 1974-2001 Librarian
Kadingo, Carol J. 1984-2018 Physical Education	Kuiper, H. Peter 1968-1993 Speech, English, Philosophy	Locker, Theodore A. 1965-1990 English
Kane, Linda 1999-2015 Disabled Student Programs and Services	Kulbeth, Jean 1997-2013 Dental Hygiene	Lopez, Bradley 1975-2013 Health Science
	Lane, W. Keith 1968-2005 Business Administration/Marketing	

Lopez, Matthew 1971-1991 Welding	McCarthy, John R. 1951-1977 Health Education	Moncibais, Gordon 2011-2016 Fire Technology
Lopez, Rachel G. 1990-2015 English	McClain, Mary Jane 1999-2011 Medical Assisting Surgical Technology	Mooneyham, David E. 2003-2019 Maintenance Mechanic (CTC)
Luck, Emory F. 1984-2004 Physical Education	McCormack, Ethel 1930-1961 Secretarial Science, Dean, Business Division	Moore, Bessie M. 1971-1984 Vocational Nursing
Luckenbach, Roger 1998-2012 Biology	McCully, Brian J. 1989-2015 Paralegal	Moore, Joseph Jr. 1966-1999 History, Political Sciences
Lund, Edward L. 1988-2008 Counselor, Disabled Students Programs & Services	McCully, Clyde C. 1967-1986 President	Moore, Marilyn 1984-2013 Child Development
Machado, Gayle 1996-2012 Mathematics	McHenry, James A. 1965-2001 Biology	Moorehouse, Richard L. 1974-1993 Director, Dental Hygiene Program
Makofske, James P. 1989-2017 Accounting, Computer Information Tech- nology	Mendez, Linda 1999-2018 Counselor	Moran, Charles L. 1959-1989 Botany, Biology
Marks, William A. 1959-1992 Industrial Education, Air Conditioning	Mericle, Margaret E. 1999-2020 Dean of Instruction, Social Sciences	Morgan, Carl H. 1955-1973 Physics, Mathematics
Marshall, Thomas A. 1962-1987 Psychology	Merlier, Christiane M. 1984-2008 ESL, French	Moses, John 1999-2021 English/Film
Martin, Lawrence 1957-1981 Accounting, Native American Studies	Meserve, Peter 2001-2018 Geography	Muldoon, Marcia 1995-2006 English
Martin, Merle 1950-1980 Dean of Students	Meyer, Kent R. 1962-1987 Accounting	Munoz, Shana 2001-2019 English
Maruko, Eiji 1976-1997 Music	Miller, Bruce A. 1996-2021 Electrical Systems Technology	Munshower, Donald 1984-2003 Counselor
Mascarenas, Timothy E. 1971-2004 Automotive Technology	Miller, Mary E. 1960-1984 Secretarial Science	Murphy, Connie J. 1984-2007 Business & Technology
Mateo-Laeno, Mary Ann 1990-2007 Child Development	Miller, Mary Beth 2001-2021 Child Development	Naipally, Ashok 2007-2014 Dean of Instruction, Mathematics, Science and Engineering Division
Mattox, Jack V. 1966-2001 Health Science	Minar, Cynthia "Jill" 2000-2020 Anthropology/Archaeology	Neal, Stanley B. 1990-2005 Welding, Metal Fabrication
	Moller, Richard T. 1968-1990 Mathematics	Nelson, Carl C. 1966-1994 Biology

Neuman, Darlene H. 1962-2000 Business & Technology	Paulson, Richard S. 1955-1984 Speech	Rawate, Prabhu 1990-2005 Chemistry
Newcomb, Joan T. 1971-2001 Sociology, Child Development	Paz, Isias E. 1971-1996 Spanish, German	Reynolds, Jr., William A. 1957-1978 French
Nielsen, Robert 1961-2001 Music	Peart, Gilbert M. 1958-1977 Marketing	Reznik, Zwi 1990-2010 Mathematics
Nishimoto, Henry 1980-2007 Economics	Perkins, Alvan E. 1964-1990 Counselor	Richardson, Robert L. 1968-2005 Counselor
Nitzsche, Eric J. 1996-2019 Construction	Pool, June E.V. 1956-1984 Vocational Nursing	Ritter, James J. 1984-2002 Maintenance Mechanic (CTC)
Ogden, Gordon L. 1975-1994 Director, Health Sciences	Poole, Thomas Craig 1999-2019 Geology	Rios, Cruz F. 1976-1986 Automotive Mechanics
Ohanian, Gregory 1999-2015 Physics, Engineering	Porter, Ralph W. 1971-2003 Biology	Roach, Darlene 1985-2012 Counselor
Okkerse, Victor J. 1959-1984 Secretarial Science	Priewisch, Alexandra 2017-2021 Geology	Roberts, Michael 1992-2015 English
Olson, Kenneth E. 1990-2012 Electronic Technology, Automated Technologies	Putnam, Marlene S. 1984-2001 Business & Technology	Rohrer, Martha J. 1976-1981 Home Economics
Osborne, Leon 1959-1995 Art	Quercia, Olga 1996-2014 Music	Rooks, Clay 1999-2019 English
Ostrander, Theodore E. 1989-2018 Mathematics	Quinn, Charles T. 1970-2003 Theatre Arts, Speech	Rose, Bronwen Wendy 1984-2003 Native American Studies
Owens, Daniel L. 1999-2021 Computer Information Technology	Quintana, Frank M. 1970-2006 Associate Dean of Instruction, Fine, Performing, and Communication Arts Division	Ross, James Edward 1971-2002 Mathematics
Owens, Kenneth B. 1963-1999 Art	Racki, David 1985-2013 Librarian	Rowe, Andrew F. 1962-1990 Mathematics
Palmer, Richard 1990-2021 Biology	Rail, Lester DeWayne 1971-2000 Director, Arts, Honors & Student Success	Ryan, Judy L. 1988-2015 English
Parks, John L. 1996-2009 Air Conditioning	Ramay, Morris W. 1972-2000 Respiratory Care	Ryska, John W. 1965-1982 Counselor
Pauls, Albert N. 1963-1990 Secretarial Science	Ramon, Frank 1972-2010 Director, Financial Aid	Sabbatini, LeRoy A. 1976-1999 Automotive Collision Repair

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Saddler, James 1990-2008 English	Scott, Rueben A. 1971-2005 English, Philosophy	Sorensen, Royal 1976-1978 Microbiology
Safer, Joseph 1963-1985 Data Processing	Scott, William F. 1967-1984 Geography	Sosa, Luis R. 1977-1993 Sociology, Human Services
Sakata, Kenneth 1981-2003 Cabinetmaking Technology	Seaberg, William 1980-1998 Associate Dean of Instruction, Learning Resources	Spencer, Lowell 1948-1978 Music
Sall, Gerald 1977-2007 CTC Counselor	Seely, Irene O. 1989-2009 Biology	Spolsdoff, John 2000-2008 Director, Student Success & Honors
Salrin, Ralph E. 1961-1986 Accounting	Shelley, Deborah 2008-2018 Biology	Staebler, Diane 2013-2021 Biology
Sample, Brooke 1990-2016 Instructor, Disabled Students Programs and Services	Shepard, James H. 1987-2005 Art	Stanley, Vance 1972-1999 Physical Education
Sandau, Richard R. 1959-1983 English	Shine, G. Dennis Jr. 1968-1993 Economics, Business Administration	Statham, Yolanda A. 1964-1984 English
Santos, Jeannie 2009-2019 English	Shirley, W. Delton 1968-2001 Biology	Stilwell, Shirley B. 1962-1984 Physical Education
Santos, Richard 1994-2019 Linguistics, English for Multi-Lingual Students	Simba, Ceroasetta 1997-2013 English	Stephenson, Wendell 1999-2019 Philosophy
Sause, James 2000-2021 Computer Information Technology	Siroky, Allen 1999-2021 History	Stone, Carol J. 1990-2010 Home Economics
Sausen, Barbara 1981-2008 Mathematics	Smith, Bernice V. 1972-1978 Librarian	Stubblefield, Gertrude 1930-1960 Secretarial Science
Scambray, Terry A. 1967-2001 English	Smith, Bonnie 1996-2019 Computer Information Technology	Susnick, Ruthford 1999-2010 Automotive Mechanics CTC
Scheid, Anne F. 1991-2015 Art	Smith, Dorothy E. 1965-1978 Nursing	Syverson, William A. 1990-2015 Business Administration/Marketing
Schneider, Dennis 1981-2011 Business Administration/Marketing	Smith, Mary 2009-2020 Nurse	Takeuchi, Leo S. 1959-1992 Associate Dean of Instruction, Technical & Industrial Division
Scott, Ronald A. 1990-2018 Physical Education	Smith, Shannon 1958-1980 Flight Science, Industrial Education	Taylor, Mary A. 1975-2011 Nursing
	Solwazi, Kehinde 1970-2011 African-American Studies	Temple, Donald 1990-2016 Decision Science/Computer Information Technology

- Terry, Blair  
1974-2001  
Accounting
- Tessler, Brian  
1999-2018  
Physical Education
- Thiessen, Jolene  
2001-2018  
Business & Technology
- Thomas, Pamela  
1984-2013  
English
- Tognazzini, Eugene A.  
1984-2011  
Mathematics
- Toomasian, John  
1961-1995  
History
- Tucker, James  
2006-2011  
Dean of Instruction, Library and  
Student Learning Support Services
- Ugwu-Oju, Dympna  
1994-2020  
Journalism
- Valencia, Richard  
1976-2007  
Sociology
- Van Gerpen, Maurice  
1959-1999  
Political Science
- Van Vleet, Patricia N.  
1991-2017  
Linguistics, English for Multi-Lingual  
Students
- Vanderpool, Neil  
2015-2020  
Dean of Instruction, Fine, Performing and  
Communication Arts
- Velasquez, Sarah  
2007-2017  
Political Science
- Vinacor, Donald J.  
1970-1997  
Chemistry
- Waddle, Carl D.  
1965-1997  
Associate Dean of Instruction,  
Humanities, and Health Sciences & the Arts
- Wall, Kenneth G.  
1979-2002  
Construction
- Walzberg, Laura Ann  
1985-2014  
Nursing
- Wash, Dennis C.  
1974-1996  
Air Conditioning, Industrial Education
- Waters, Rosemary  
1972-2009  
Biology
- Watson, Donald G.  
1968-2005  
Counselor
- Watts, Ann  
2008-2016  
Director of CalWORKs
- Wayte, William R.  
1968-1999  
Physical Education
- Weinschenk, Franz A.  
1954-1980  
Associate Dean of Instruction, Humanities
- Weidenhoefer, Hans  
1948-1984  
Director of Athletics, Physical Education
- Whitt, C. Thomas  
1969-2001  
Criminology
- Wilson, Vernon L.  
1976-1988  
Radiologic Technology
- Woodman, Joseph B.  
1948-1976  
Auto Mechanics
- Woodruff, Jr., Elbert N.  
1971-1984  
English
- Woods, MaryAnn  
1989-1999  
Medical Assisting, Health  
Information Technology
- Wosika, Kathleen A.  
1975-2012  
Art
- Wrzalinski, Eugene S.  
1984-2003  
Environmental Technology
- Yarbrough, Thomas  
1997-2014  
Engineering
- Yates, Susan  
1984-2013  
Athletic Director, Physical Education
- Young, Nain T.  
1962-1984  
Registered Nursing
- Zepeda-Esparza, Josephine  
1969-1995  
English, Spanish

## In Memoriam

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Sheila Martin, Business & Technology Instructor

Salvador Mena, Educational Advisor

William A. Neal, Mathematics Instructor

Birt Reid, Counselor

James R. Ruston, English/Speech Instructor

## Emeritus Classified Professionals

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Aeikens, Patricia 1983-2016 Accounting Technician I	Biddy, Delores 1977-2015 Office Assistant III	Culbertson, Christine 1987-2014 Early Childhood Education Specialist
Aguilar, Yolanda 2001-2011 Student Services Specialist	Bischel, Steve 1973-2007 Custodian	Day, Charlezsette 1989-2016 Job Developer
Alcorta, Jose 2008-2021 Custodian	Bogdanoff, Gerald 1980-2004 Electronics/Microcomputer Technician	Delaney, Theresa 1997-2017 Library Technical Services Assistant
Anderson, Robin 1979-2011 Department Secretary	Bravo, Juan 1988-2014 Custodial Manager	Dodd, Sherri 1990-2019 Accounting Technician
Andrews-Boock, Sharon 1988-2008 Administration Aide	Brooks, Edward 1977-2010 Custodian	Doyle, Mary 1996-2021 Print Media & Communications Manager
Archuleta, Irene 1990-2004 Administrative Aide	Bruce, Eleanor 2001-2020 Budget Technician	Echols, Katherine 1970-2018 Student Services Specialist
Baiz, Edward 2006-2018 General Utility Worker	Bryant, Melanie 2000-2021 Office Assistant II	Ediger, Patricia 2006-2013 Department Secretary
Barber, Joan 1974-2007 Office Assistant III	Caldwell, Carmen 1979-2008 Department Secretary	Ediger, Stanley 2006-2014 Educational Advisor
Barile, Howard 2001-2018 Accounting Technician I	Carr, William 1999-2010 Financial Aid Assistant II	Ervine, Kathleen 2000-2020 Early Childhood Education Specialist
Barlow, John 1991-2011 Custodian	Chernehoff, Ellen 2002-2017 Early Childhood Education Associate	Estrada, Ruthina 1987-2013 Administrative Aide
Barnett, Karin 2003-2011 Textbook Purchasing Clerk	Christiansen, Argilia 1977-2003 Textbook Purchasing Clerk	Faith, Linda 2001-2010 Department Secretary
Barrett, Jeffrey 2004-2019 Theatre Technical Director	Collins, Sheila 1993-2017 Early Childhood Education Specialist	Fischer, Judi 1992-2019 Bookstore Sales Associate
Battcher, Shirley 1999-2011 Office Assistant II	Cook David 2006-2018 Printing Trades Technician	Flanders, Veronica 2007-2015 Department Secretary
Belk, James 1982-2004 Library/Learning Resources Assistant III	Cox, James 1992-2010 Athletic Equipment Manager	Flores, Delfina 1977-2007 Student Services Specialist
Bennett, Judith 1991-2016 College Relations Specialist		Florez, Abrian 1998-2020 Lead Custodian



Fouquette, Brenda 1988-2012 Library/Learning Resources Assistant II	Jimenez, Jess 1997-2004 Athletic Equipment Manager	Mangum, Pearl 1990-2019 Instructional Administrative Assistant
Frary, Kathy 2014-2020 Senior Admissions and Records Assistant	Johnson, Cathie 1989-2015 Financial Assistant I	McCollum, Debra 2002-2019 Phone Communications Operator II
Gallegos, Terri 2005-2020 Instructional Assistant	Johnson, Susan 2001-2019 Senior Program Specialist – Career Technical	McKibben, Shannon 1994-2020 Executive Assistant
Garachana, Sandra 1982-2018 Administrative Aide	Kilgore, Richard 1992-2011 Instructional Technician – Art	McSwain-Tennent, Holly 1997-2005 Administrative Aide
Gerety, Cheryl 1990-2012 Office Assistant III	Kohl, Mona 2001-2014 Administrative Aide	Mendoza, Linda 1993-2013 Office Assistant III
Greene, Jr., Homer 1991-2017 Educational Advisor	Komaki, Hiro 1975-2005 Graphic Artist	Miller, Donna 1985-2003 Business Facilities Assistant
Greenwood, Phyllis 1990-2010 Department Secretary	Kroeker, Jay 1970-2004 Audio Visual Maintenance Specialist	Miller, Toni O. 1973-2004 Educational Advisor
Guillen, Guillen 2006-2011 Custodian	Larsen, Dale 2002-2007 Financial Aid Assistant	Moorer, Lewis 1983-2008 Lead Custodian
Hagler, Linda 1992-2008 School Relations Specialist	La Voie, Charles 1990-2013 Micro-Computer Resource Technician	Munoz, Jose 1982-2019 Custodian
Haney, Loretta 1972-2018 Assessment Coordinator	Lippmann, Frances 1992-2015 Admissions and Records Manager	Murrietta, Leticia 1974-2014 Administrative Aide
Harris, Elizabeth 1980-2005 Administrative Assistant	Linn, Carolyn 1991-2004 Administrative Aide	Myers, Doris 1988-2009 Office Assistant III
Harris, Linda 1990-2015 Textbook Purchasing Clerk	Livengood, Robert 1982-2005 Instructional Technician-Automotive	Nelson, John 1985-2017 Athletic Trainer
Harrison, Richard 1990-2015 Print, Media & Communications Manager	Lopes, Susan 2000-2016 Office Assistant III	Pacada, Emelita 2004-2020 Admissions and Records Assistant II
Hendricks, Debra 2006-2014 Administrative Aide	Lopez, Rosa 1982-2017 Evaluator	Pelham-Wiley, Emma 1987-2003 Nursing Skills Resource Assistant
Herman, Tamara 2005-2021 Office Specialist	Mallory, Lynn 1980-2016 Administrative Assistant	Peterson, Sandra 2007-2012 Department Secretary
Hinkle, Barbara 2009-2020 Program Assistant – Career Technical		

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Pinley, Lisa 2000-2014 Evaluator	Rogers, Phyllis 2006-2016 Office Assistant II	Van Dyken, Robert 2003-2014 Custodian
Pisching, George 1990-2008 Graphic Artist	Rothford, Jim 2003-2018 Athletic Equipment Manager	Van Galder, Ann 1996-2016 Office Assistant III
Points, Susan 1987-2011 Duplicating Operations Technician	Ruby, Michelle 1990-2016 Assessment Coordinator	Vargas, Sandra 1973-2011 Campus Business Assistant
Rackin, Marilyn 1975-2007 Secretary to the President	Sanchez, Silvia 1973-2019 Office Specialist	Vennard, Michael 1992-2005 Instructional Technical-Reprographics
Ragasa, Erlinda 2001-2016 Accounting Technician I	Santillan, Janet 1992-2020 Administrative Assistant	Wilk, Woody 1985-2009 News Writer/ Sports
Ramirez, Judith 1992-2014 Educational Advisor	Slevkoff, Hazel 1970-2006 Curriculum Assistant	Willingham, Tandy 1982-2004 Library/Learning Resources Assistant III
Reed, Edwin 1981-2019 Custodian	Stovall, Deborah 1995-2017 Bookstore Sales Clerk III	Willis, Carole 1999-2004 Office Assistant I
Reid, Ora 1985-2010 Custodian	Sullivan, Francis 1975-2003 Theatre Manager	Whisenhunt, Lydia 1969-2010 Secretary to the President
Rice, Mary 1998-2012 Student Services Specialist	Swan, Kathleen 2000-2021 Administrative Assistant	Whittle, Oscar 1987-2013 Custodian
Richards, Michael 1981-2019 Lead Custodian	Taylor, Gail 1997-2011 Administrative Aide	Withrow, Nancy 2002-2020 Senior Admissions and Records Assistant
Riegel, Rhea 2001-2012 Institutional Research Coordinator	Supersad, Pearl 1972-2011 Department Secretary	
Rivera, Donna 1973-2009 Assistant Bookstore Manager	Uribe, Regina 1999-2011 College Relations Specialist	
Roe, Franklin 1998-2010 Job Development		

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