Substantive Change Proposal
Instructional Mode of Delivery: Distance Education

to the
Accrediting Commission for Community and Junior Colleges
Western Association of Schools and Colleges

Submitted by
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NARRATIVE

A. DESCRIPTION OF PROPOSED CHANGE AND JUSTIFICATION

A. 1. DESCRIPTION

College of San Mateo (CSM) is requesting approval from the Accrediting Commission for Community and Junior Colleges (ACCJC) to offer 57 Associate Degrees, 14 Certificates of Achievement, and 15 Certificates of Specialization in the distance learning (DL) mode. CSM also requests approval to offer CSM’s general education program through the distance learning mode. (See Appendices A, B, and C.)

In addition, as a result of developing this proposal, CSM has identified 20 majors which individually meet the 50% threshold for distance learning. (See Appendix D.) Identifying majors whose requirements may be met substantially via distance learning is especially relevant for students who are transfer bound but do not seek Associate degrees. Also relevant for transfer-bound students is that more than 50% of the Intersegmental General Education Transfer Curriculum (IGETC) and more than 50% of California State University General Education-Breadth (CSU-GE) requirements can be completed at CSM via distance learning. (See Appendices E and F.)

A. 2. RATIONALE FOR CHANGE

This proposal is a result of an extensive internal audit and evaluation of CSM’s telecourses, online courses, and program offerings that were prompted by action of the ACCJC.

Following the accreditation team’s site visit to CSM in October 2007, the ACCJC issued the following recommendation (#3):

College Recommendation 3: In order to meet distance education accreditation standards and ACCJC policy the college must evaluate the effectiveness of electronically delivered courses, including the assessment of student learning outcomes, student retention, and student and faculty satisfaction.

As a result of the site visit, it was determined that the college may have several certificates and degrees where 50% or more of the requirements are delivered via distance learning. The team recommends that the college notify the Accrediting Commission and submit a substantive change proposal which will validate the program’s adherence to the accreditation standards. [Emphasis added]
With regard to Recommendation 3, at the time of the October 2008 report, the college will demonstrate significant progress in evaluating distance learning courses and establish a plan to complete reviews by October 2009.

(Letter from ACCJC, January 31, 2008)

The internal audit to determine which programs meet the 50% threshold has included a review of:
- CSM’s Catalog, 2009-2010
- College course schedules, spanning six years
- Committee on Instruction action documentation, spanning six years
- San Mateo County Community College District (SMCCCD) Board of Trustees’ action documentation
- Other documentation from CSM’s Office of Instruction
- Enrollment data extracted from the SMCCCD integrated administrative database of student and course data

As reported to the ACCJC in December 2008, CSM completed a comprehensive evaluation of its distance learning offerings in Fall 2008. The results of this evaluation also inform the narrative of CSM's Substantive Change Proposal.

This evaluation of CSM’s distance learning program included the assessment of student learning outcomes, student achievement in both online and telecourses, and faculty and student satisfaction surveys. As reported to the ACCJC, the evaluation resulted in: 1) a new evaluation process to ensure quality improvement for distance learning, 2) the identification of priorities for the distance learning program along with target indicators, and 3) a 3-year action plan to address gaps in the program identified through the assessment.

**Overview of Distance Learning Program at College of San Mateo:**
From its start in 1964, CSM’s distance learning program initially evolved out of the telecourse offerings of SMCCCD’s public television station, KCSM-TV, whose studios are located on the CSM campus. By the mid-1990’s CSM offered approximately 25 telecourses each semester, ranking among the top two or three California Community Colleges in terms of telecourse enrollment. By 2002, offerings grew to 40 telecourses along with 25 sections of online classes.

Since its early days, the program has steadily expanded. In preparing for this Substantive Change Proposal, we reviewed five years of DL enrollment for the period 2004/2005 to 2008/2009. During this period, enrollment in distance learning courses continued to grow: CSM offered 44 different telecourses and 77 online courses (unduplicated) for a total of 124 individual distance learning
courses. These constituted a total of 686 class sections (i.e. unique CRN’s). For this period, DL course offerings increased 21.6% (+141).

However, while online course offerings increased by 21.6%, telecourse enrollments decreased by 28.2%. (For detail, see Appendices G and H, Appendix G: Trends: CSM Distance Education, Enrollments, Courses, and Faculty and Appendix H: Distance Education Enrollment History, 2004-2009.)

As of August 2009, 123 separate courses are considered active courses as officially approved by the college’s Committee on Instruction (COI) to be offered through a distance mode. (See Appendix I, Approved Distance Learning Courses.)

Today, enrollments in distance learning courses constitute approximately 5% of overall enrollment.

B. DESCRIPTION OF EDUCATIONAL PROGRAMS OFFERED

B.1. PROGRAMS’ RELATIONSHIP TO MISSION

CSM’s Mission Statement:

College of San Mateo, the first community college in San Mateo County, is an open-access, student-focused, teaching and learning institution that serves the diverse educational, economic, social and cultural needs of its students and the community. By offering comprehensive, quality programs and services and by measuring student learning, College of San Mateo educates students to participate successfully in a changing world.

Adopted by College of San Mateo’s College Council, December 5, 2001/Revised February 2, 2005

Access:

CSM’s distance learning program addresses CSM’s commitment to fulfilling its mission as a comprehensive community college, serving diverse and sometimes remote students whose “access” to higher education is facilitated by the telecourses and online programs described here.

In an economic environment in which most CSM students work (or are actively seeking jobs) and a large proportion are older and have family and other demands on their time, flexibility of course scheduling is imperative. DL classes extend access to these students and others who can’t attend on-site courses.

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1 44% of CSM’s students are 26 years and older; 33% are 31 years or older.
Comprehensive Offerings:
As a comprehensive community college, CSM sees its mission as providing DL options for:

- Associate Degree and Certificate programs
- Lower-division preparation for transfer to baccalaureate institutions
- Programs that support career preparation and technical job training or retraining

CSM provides a comprehensive system of support services that complement and enhance its distance learning options (as described in Section B). What’s more, the college ensures consistent, continuous “quality” in its programs and services through the development and assessment of SLO’s, implementation of new evidence-based program review processes, and the adoption of a new integrated planning model.

B.2. Distance Learning Educational Programs

As described in CSM’s Catalog, 2009-2010, the college offers three levels of awards: Associate of Arts/Science degree, Certificates of Achievement, and Certificates of Specialization. Students have genuine DL options for earning any of these awards.

Associate Degree in Arts and Science-General Education:
To earn an Associate of Arts/Science degree, a student must complete 60 units of lower-division college-level work. At CSM, the major requires a minimum of 18 units and General Education requires a minimum of 26 units. Sixteen or fewer units of electives are used to complete the 60-unit requirement. Twenty-five of the 26-unit minimum General Education requirement (96%) alone may be met through DL mode courses.

As a whole, CSM’s Associate in Arts/Science Degree requirements include the following:

a. A minimum of 12 units must be completed at College of San Mateo
b. A minimum grade point average of 2.0
c. Competency requirements in Math and English
d. Major requirements of at least 18 units

e. General Education (26-33)
   -American History and Institutions, CA State and Local Government (5-9 units)
   -Language and Rationality (6-9 units)
- English Composition (3 units)
- English, Literature, Speech Communication (3 units)
- Communication and Analytical Thinking (3 units)

(Depending on course selection, the same course may be used to satisfy both the requirement in English/Literature/Speech Communication and the requirement in Communication and Analytical Thinking.)

- Health Science (2 units)
- Physical Education (1-4 units) **(No distance learning option)**
- Additional General Education Requirements (12 units+)
  - Natural Science (3 units)
  - Social Science (3 units)
  - Humanities (3 units)
  - Career Exploration and Self Development (3 units)

(The major may be used to satisfy one of these areas, in which case 12 units must be selected from the other three areas with at least three units in each area.)

f. Electives (units as needed to meet the 60 unit degree requirement)

**Rationale for Calculation of 50% Threshold for General Education:**
To demonstrate how CSM identified the 50% threshold for individual degree majors, a rationale is first needed for how we calculated the proportion of distance learning courses available to meet the General Education requirements.

The units that constitute General Education minimally equal 26 units. Of these 26 units, **all** may be earned via a distance mode except for the one-unit minimal requirement for physical education. In practice most students satisfy the general education requirements with 27 to 30 units; physical education remains the only requirement that cannot be satisfied through a DL course. **(Appendix C details the individual DL course options for General Education.)**

Therefore, a student may fulfill 25 of 26 units through distance classes and, thus, 96% of CSM’s General Education requirements may be met through the distance mode.

**Associate Degree in Arts and Science-Degree Majors:**
Fifty-seven (57) of the 76 degrees listed in the 2009-2010 Catalog are substantially available through DL. The only majors that do not meet the 50%
threshold for substantial availability through DL are those degree programs (e.g. Nursing) which require 30 or more units not available through DL.

**Rationale for Calculation of 50% Threshold for Degree Majors:**
Of the 60 units required for an Associate degree, 25 units of the 26 General Education courses (or 96%) are available in the DL mode. In addition, CSM’s DL offerings are broad enough that any elective units may also be satisfied through the DL mode. This means that all of the non-major portion of the degree except the one-unit minimum physical education requirement can be completed by classes approved in the distance mode.

The only majors that fail to meet the 50% requirement thus are those for which 30 or more required major units are not available through DL.

In instances in which the degree has a range of units, we used the limit that gives the highest DL percentage. (See Appendix A for percentages of DL availability in degrees.)

**Degrees which Meet the 50% Threshold:**
Degrees for which at least 50% of units are available through DL include:

- Accounting, AA
- Administration of Justice, AS
- Architecture, AS
- Art: Commercial
- Art Fine Arts Option 4: Printmaking, AA
- Art: Photography, AA
- Business Administration, Option 1, AA
- Business Administration, Option 2, AA
- Business Insurance - Property and Casualty, AA
- Business Merchandising - Management, AA
- Business Info. Processing, Opt. 1, AA
- Business Info. Processing, Opt. 2, AA
- Chemistry, AS
- Computer and Information Science, AS
- Computer and Network Forensics, AS
- Computer Science Applications and Development, AS
- Computer Support Specialist Opt. 1, AS
- Computer Support Specialist Opt. 2, AS
- CAD/Drafting Technology, AS
- Engineering, AS
- Engineering Technology: Electronics, AS
- Engineering Technology: General, AS
- English, AA
- Ethnic Studies, AA
- Film, AA
- French, AA
- Geological Science, AS
- Horticulture: Environmental Option 1, AS
- Horticulture: Environmental Option 2, AS
- Horticulture: Environmental Option 3, AS
- Horticulture: Floristry, AS
- Humanities, AA
- Human Services, AA
- Interdisciplinary Studies Option 1, AA
- Interdisciplinary Studies Option 2, AA
- Interdisciplinary Studies Option 3, AA
- Journalism, AA
- Life Sciences: General, AA
- Life Sciences: Biological, AS
- Life Sciences: Biotechnology, AS
- Life Sciences: Medical, AS
- Life Sciences: Pre-Nursing, AS
- Management: Business Manage, AA
- Management: Marketing Manage., AA
- Management: Retail Manage, AA
- Mathematics, AS
- Multimedia Option 1, AA
- Multimedia Option 2, AA
- Multimedia Option 3, AA
Majors which Meet the 50% Threshold:
Knowledge of fields in which the major courses are substantially available through DL may be helpful for three groups of students. Students often begin their studies by taking general education classes, only later determining a major. For students who have completed most of the general education requirements, it is helpful to know which majors are substantially available through distance learning.

In addition, many transfer-bound students do not seek Associate degrees, but instead focus on transfer major preparation which, in many fields, is similar to major requirements of the Associate degree. Knowledge of the majors substantially available through distance learning may be helpful for these students as well.

Finally, a large percentage of community college students at CSM and elsewhere do not complete a degree or certificate. Majors substantially available through distance learning may provide a path to completion for some of these students.

CSM offers 20 majors (of 76 majors listed in CSM’s Catalog, 2009-2010) whose required major units are substantially available (50% or more required units) through a distance mode. For three of these majors (Computer Science Applications and Development (AS), Interdisciplinary Studies Option 2 (AA), and Social Science (AA)), all (100%) major coursework can be completed in a distance mode. (See Appendix D for percentage of DL availability in degrees.)

Majors include:

- Accounting, AA
- Business Administration, Option 1, AA
- Business Administration, Option 2, AA
- Business Insurance - Property & Casualty, AA
- Business Merchandising - Management, AA
- Business Information Processing, Opt. 1, AA
- Business Information Processing, Opt. 2, AA
- Computer Science Applications and Development, AS
- Computer Support Specialist Option 1, AS
- Engineering Technology: General, AS
- French, AA
- Interdisciplinary Studies Option 2, AA
- Interdisciplinary Studies Option 3, AA
- Life Sciences: General, AA
- Management: Business Management, AA
- Management: Marketing Management, AA
- Management: Retail Management, AA
- Physical Science, AS
- Social Science, AA
- Spanish, AA
Certificates:
CSM offers two types of certificates upon successful completion of selected courses: Certificates of Specialization and Certificates of Achievement. Certificates of Specialization require successful completion of designated courses for fewer than 18 units; Certificates of Achievement require 18 or more units in designated courses. The latter appears on transcripts.

CSM requests approval for a total of 29 certificate programs that are substantially available (50% or more required units) through distance learning.

Rationale for Calculation of 50% Threshold for Certificates:
In instances in which the certificate has a range of units, we calculated the limit that yields the highest number of distance learning mode units. (Appendix B also indicates the percentage of courses offered in the distance mode for Certificates.)

Certificates include:

Accounting:
Accounting (Certificate of Achievement)
   Requires 22 units, 21.5 units (97.7%) of which may be earned in a distance mode.
Accounting Assistant (Certificate of Specialization)
   Requires 8.5 units, 8 units (94.1%) of which may be earned in a distance mode.
Tax Preparer I (Certificate of Specialization)
   Requires 8.5 units, 5 units (58.8%) of which may be earned in a distance mode.

Business:
Business Insurance - Property and Casualty (Certificate of Achievement)
   Requires 32 units, 20 units (62.5%) of which may be earned in a distance mode.
Business Merchandising – General (Certificate of Achievement)
   Requires 21 units, 12 units (57.1%) of which may be earned in a distance mode.
Business Merchandising – Management (Certificate of Achievement)
   Requires 25 units, 13 units (52%) of which may be earned in a distance mode.
Business Information Processing, Option 1 (Certificate of Achievement)
   Requires 24.5 units, 17 units (69.4%) of which may be earned in a distance mode.
Business Information Processing, Option 2 (Certificate of Achievement)
   Requires 24 units, 21 units (87.5%) of which may be earned in a distance mode.
Office Assistant I (Certificate of Specialization)
   Requires 9.5 units, 6.5 units (68.4%) of which may be earned in a distance mode.
Office Assistant II (Certificate of Specialization)
   Requires 11 units, 8 units (72.7%) of which may be earned in a distance mode.

Career and Life Planning:
Leadership for Service (Certificate of Specialization)
   Requires 6 units, 3 units (50%) of which may be earned in a distance mode.
College Peer Advisor (Certificate of Specialization)
   Requires 6 units, 3 units (50%) of which may be earned in a distance mode.
Chinese:
Chinese (Certificate of Specialization)
   Requires 12 units, 9 units (75%) of which may be earned in a distance mode.

Computer and Information Sciences:
Computer Science Applications and Development (Certificate of Achievement)
   Requires 30 units, 30 units (100%) of which may be earned in a distance mode.
Computer Support Specialist Option 1 (Certificate of Achievement)
   Requires 28.5 units, 20.5 units (71.9%) of which may be earned in a distance mode.
C++ Programming (Certificate of Specialization)
   Requires 8 units, 8 units (100%) of which may be earned in a distance mode.
CIS Network Security Specialist (Certificate of Specialization)
   Requires 7.5 units, 6 units (80%) of which may be earned in a distance mode.
Computer Forensics (Certificate of Specialization)
   Requires 13.5 units, 9 units (66.7%) of which may be earned in a distance mode.
Internet Programming (Certificate of Specialization)
   Requires 16 units, 16 units (100%) of which may be earned in a distance mode.
Java Programming (Certificate of Specialization)
   Requires 8 units, 8 units (100%) of which may be earned in a distance mode.

French:
French (Certificate of Specialization)
   Requires 12 units, 7 units (58.3%) of which may be earned in a distance mode.

Italian:
Italian (Certificate of Specialization)
   Requires 12 units, 7 units (58.3%) of which may be earned in a distance mode.

Management:
Business Management (Certificate of Achievement)
   Requires 24 units, 18 units (75%) of which may be earned in a distance mode.
Marketing Management (Certificate of Achievement)
   Requires 24 units, 15 units (62.5%) of which may be earned in a distance mode.
Retail Management (Certificate of Achievement)
   Requires 32 units, 16 units (50%) of which may be earned in a distance mode.

Spanish:
Spanish (Certificate of Specialization)
   Requires 12 units, 7 units (58.3%) of which may be earned in a distance mode.

University Transfer Certificates:
University Transfer Option 1: California State University General Education Certificate (CSU/GE) (Certificate of Achievement)

To meet the California State University General Education Certificate requirements, a student must complete 39 units in areas A-E, 36 units (92.3%) of which may be completed in the distance mode:
   A. Communications in the English Language and Critical Thinking (9 units)
   B. Physical Universe and Its Life Forms (9 units)
   C. Arts, Literature, Philosophy and Foreign Language (9 units)
D. Social, Political and Economic Institutions (9 units)
E. Life-long Understanding and Self Development (3 units)

University Transfer Option 2: Intersegmental General Education Transfer Curriculum Certificate for CSU (IGETC/CSU) (Certificate of Achievement)

To meet the IGETC/CSU Certification requirements a student must complete 37 units in areas 1-5, 34 units (91.9%) of which may be completed in the distance mode:
1. English Communication (9 units)
2. Mathematical Concepts and Quantitative Reasoning (3 units)
3. Arts and Humanities (9 units)
4. Social and Behavioral Sciences (9 units)
5. Physical and Biological Sciences (7 units)

University Transfer Option 3: Intersegmental General Education Transfer Curriculum Certificate for UC (IGETC/UC) (Certificate of Achievement)

To meet 6 IGETC/CSU Certification requirements a student must complete a minimum of 34 units in areas 1-6, 34 units (100%) of which may be completed in the distance mode:
1. English Communication (6 units)
2. Mathematical Concepts and Quantitative Reasoning (3 units)
3. Arts and Humanities (9 units)
4. Social and Behavioral Sciences (9 units)
5. Physical and Biological Sciences (7 units)
6. Language other than English

IGETC and CSU-GE:
As noted earlier, many students attend CSM with the goal of transfer to a baccalaureate institution. For many of these students, the availability of DL courses is critical to their success. The vast majority of transfer-bound students prepare for transfer using the IGETC or CSU-GE patterns for satisfying lower division transfer requirements.

For IGETC, all areas can be satisfied through DL courses with the following exceptions: (For details, see Appendices E and F.)

1) The only "lab course" (IGETC Area 5 lab requirement) available through DL is BIOL 260, Introductory Physiology, a hybrid with an on-campus lab; in addition, the prerequisite to BIOL 260, is BIOL 250, Anatomy, which is not currently offered in a distance mode.

2) The Area 1 Group C, “Oral Communication,” requirement (CSU only) cannot, according to CSU systemwide policy, be satisfied through a DL course.

3) The Area 6, “Language other than English,” requirement (UC only; satisfied by many students with high school classes) is not available at CSM through DL.

(Exceptions 1 and 2 apply to the CSU-GE pattern also.)
IGETC as applied to UC:
- 100% of courses are available in a DL mode for students who satisfy Area 6 in high school
- 91% of courses are available in a DL mode for students who take a 3-unit language class to satisfy Area 6
- 86% of courses are available in a DL mode for students who take a 5-unit language class to satisfy Area 6

IGETC as applied to CSU:
A student may complete 91% of the IGETC pattern as applied to CSU requirements. All but the one course required to meet the "Oral Communication" requirement are available in a DL mode.

As indicated above, CSM offers one DL class available to satisfy the lab requirement and that class is a hybrid with prerequisites.

CSU-GE:
A student may complete 93% of the CSU-GE pattern through the DL mode.

It is important again to note that a DL course that fulfills the "Oral Communication" requirement is not available. In addition, the distance-mode science lab course, BIOL 260, *Introductory Physiology*, satisfies the lab requirement, but it is actually a hybrid course, requiring campus attendance for the lab sessions. In addition, the prerequisite to BIOL 260 is BIOL 250, *Anatomy*, which is not currently offered in a DL mode.

B. 3. STUDENT LEARNING PROGRAMS AND SERVICES RELATED TO PROPOSED CHANGE

**College of San Mateo Library:**
Online students have access to a variety of resources provided through CSM’s library. The library supports a print collection of approximately 71,000 volumes and 250 periodical subscriptions. The library also includes a microfilm/microfiche collection and a more limited collection of audiovisual materials, including videocassettes and printed supplements used in telecourses. In addition to the physical collections of the library, a variety of online resources provide access to books, journals, magazines, newspapers, and subject-based research sources.

The library is a member of the Peninsula Library System (PLS), which includes 31 public libraries in San Mateo County and the libraries of sister colleges Skyline and Cañada. PLS libraries share an integrated online public catalog with a common interface that provides access to the bibliographic records and
locations of over 2,450,000 items in member libraries. The CSM library provides an interlibrary loan service for users to obtain resources not available through PLS. Students, faculty, or staff may request an item through interlibrary loan at the reference desk or through an online form available on the library website. The library also participates in the Federal Depository Library Program (FDLP) through which it receives a selection of print and online government documents.

**Physical Access to the Library:**
The library’s physical resources are located on campus in Building 9. In addition to the physical collection, course reserves, and study space, students in the library have access to approximately 50 computers with wired or wireless internet access, standard software, and printing service. Several computers are equipped with additional graphics software and two have assistive technology software and a scanner.

**Library and Electronic Access:**
The library maintains a well-designed website that enables students, faculty, and staff to access library resources 24 hours a day from any computer connected to the internet.

The library currently provides access to three ebook collections: Net Library, Northern California Digital Library, and Safari Tech Books. Over 60 online resources provide access to thousands of journals, magazines, newspapers, and subject-based research sources. A library card enables remote access to online resources. See: [http://www.collegeofsanmateo.edu/library/lib_info.php](http://www.collegeofsanmateo.edu/library/lib_info.php).

**Library Support Services:**
Librarians are available in person and through email, online chat, telephone, and TTD to provide assistance with both the physical and electronic collections. The library’s workplan for the current academic year, contingent on funding, includes support for text messaging as an alternate method to contact library reference and service desks. Librarians, instructional aides, and student assistants are also available to support students’ use of the library’s open access computers.

**Research 411 and other Online Tutorials:**
The library offers online tutorials to help remote students develop the ability to access, evaluate, and use information from diverse sources. Topics include, for
example, searching the library catalog, using online databases and the internet, evaluating and citing sources, and developing and pursuing a research topic. The library also offers four classes for credit that support these topics in greater depth: all are approved for both on-campus and DL modes.

**Web Ready: Introduction to the Online Learning Environment**
MULT 101, Web Ready, provides additional preparation for students to succeed in the online environment, whether as students enrolled in online courses or users of web media. The self-paced, one-unit class also helps students evaluate whether an online learning environment is suitable for their learning styles.

**Additional Library Resources for Remote Students:**
Pending the availability of resources, the library’s goals for the 2009/10 academic year include a variety of activities that address College Priority #3: “Promote Relevant, High Quality Programs and Services” to “further diversify delivery modes (distance, off-site, short courses, etc.).” (See Appendix J, Institutional Priorities 2008-2011.)

They include efforts to:
- Improve the library website by incorporating current best practices in navigation, functionality, and implementation of current technologies
- Update and repair online tutorials
- Develop a standard library template or presence in the District’s courseware packages
- Provide real time library orientations to online classes
- Implement text messaging as an alternative method to contact library reference and service desks
- Provide electronic reserves and depository services

**Other Learning Labs and Centers**
CSM offers numerous discipline-specific Labs and Centers where students can get assistance and tutoring, use subject-matter resources, use specialized equipment, and work on computers with specialized software applications.

They include the following:

- Accounting Lab
- Anatomy Lab
- Assistive Technology Center
- Business Student Lab
- Coastside (Basic Skills) Lab
- Computer & Information Science Lab (CIS)
- Foreign Language Center
- Integrated Science Center (ISC)
- MATH Resource Center (Math Lab)
- Microcomputer Lab (Business)
- Multimedia Lab
- Photography Lab
- Nursing Lab
While none of these programs specifically target distance learners, most have a variety of online resources available to remote students. In many labs, students who do not have personal computers but who are enrolled in distance learning classes come to campus and use the facilities' equipment for access to web resources and personal assistance.

The Writing Center is currently exploring the feasibility of offering an online writing component through which a student may submit an essay electronically and receive global advice on such issues as essay organization and coherence.

**B. 4. Other Programs and Services Related to Proposed Change**

**Key Student Services' Support Services:**
Students increasingly turn to the CSM website as a source of information about the services available to them and many services formerly available only in person are now available online. Distance learning students have access to the services available to all CSM students; in some cases (for example, counseling), the online options are extended for students who cannot visit campus easily.

**Accessibility:**
CSM is concerned with providing genuine accessibility to students in compliance with state and federal laws. The Assistive Technology Center (ATC) is a CSM resource for assistive technology training, accessible web design, alternate media services, and computer access services for students with disabilities. Because CSM is committed to providing accessible web pages, standards for design, navigation, and labeling are recommended for faculty and staff as they develop web pages. A variety of resources related to promoting web page accessibility is also offered to faculty online [http://ctlonline.net/websavvy/access.html](http://ctlonline.net/websavvy/access.html). In addition, a staff member from ATC is available to advise faculty and staff.

**Online College Orientation:**
CSM offers an online orientation that, while required of matriculating students, is useful for all new students. The orientation is designed as a self-paced lesson to introduce students to their education options and opportunities, help them learn the WebSMART online course registration system, orient them to college policies and procedures, and introduce them to the behavioral strategies used by successful students.
See: [http://collegeofsanmateo.edu/orientation](http://collegeofsanmateo.edu/orientation).
Counseling Services (Academic Advising):
Students enrolled in distance learning courses have access to the counseling services available to all students. These services include:

- **Individual on-campus appointments with counselors and advisors:**
  Individual appointments are coordinated through the Counseling Support Center; students may visit the center in person or reach center staff by telephone to schedule an appointment. Individual appointments are 30 minutes long and are available during day and evening hours. Counselors assist students in all majors; a limited number of faculty advisors provide specialized guidance in specific majors. During individual counseling appointments, counselors and advisors work with the student to define educational and career goals, develop a student educational plan, assess progress, and identify and resolve issues that may interfere with a student’s success. Matriculating students are required to meet with a counselor prior to registration; thereafter, students schedule appointments as needed.

- **Counseling Support Center:**
  The Counseling Support Center provides staff and resources to help students understand educational and career options and opportunities. The Counseling Support Center houses information about career classes, college majors, and transfer. Students can contact Counseling Support Center staff in person, by phone, and through email. See: [http://collegeofsanmateo.edu/counseling/counsupport.asp](http://collegeofsanmateo.edu/counseling/counsupport.asp).

- **eAdvising:**
  eAdvising is an online, email-based service through which a counselor provides quick response to basic questions regarding enrollment, attendance, degrees, and transfer. The response time is typically less than 24 hours. Links to eAdvising can be found on the “Succeed at CSM” page of the Distance Learning website, the “Contact Us” page of the Counseling Services website, the Transfer Services website, and the Coastside website. See: [http://collegeofsanmateo.edu/counseling/eAdvising.asp](http://collegeofsanmateo.edu/counseling/eAdvising.asp).

- **Extended eAdvising:**
  For students who are unable to meet with a counselor or advisor on campus, eAdvising is extended on a case-by-case basis to handle more in-depth needs such as degree checks or the updating of a student’s educational plan.
Transfer Services:
Students enrolled in distance learning courses have access to the transfer services provided to all students. The Distance Learning website includes a link to the main transfer center website which provides students with a wealth of transfer information: transfer events and workshops, campus tours, articulation agreements, guaranteed transfer contracts, the Transfer Club, and more. See: http://www.collegeofsanmateo.edu/counseling/transferservices.asp.

Students can obtain most transfer information from the website and can contact the transfer services staff in person, by phone, or through email with individual questions. Although scheduled meetings with representatives from transfer schools take place on campus, many representatives will also answer questions by email.

Assessment Center:
Students enrolled in distance learning courses have access to the placement testing services available to all students through the Assessment Center. The Distance Learning website provides a link to the How-to-Enroll web page, which in turn links to the Assessment Center’s information on placement tests. Placements tests in English, Reading, ESL, and Mathematics are offered in the Assessment Center. Placement tests are required for matriculating students and as evidence of certain math and English prerequisites.

Students schedule placement tests online through WebSMART. Testing takes place in the Assessment Center, which is open days and selected evenings. Testing is computerized, but a manual English placement test is also offered. Computerized test results are available to the student and to counselors immediately upon completion of testing, allowing students to complete placement tests and meet with a counselor during the same visit to campus.

The Assessment Center website provides general information, instructions for the use of WebSMART to schedule placement tests, sample placement tests, and phone and email contact for students with further questions. (WebSMART is the web interface used by faculty and students for a variety of self-services tasks from registration payment to faculty grading.) See: http://www.collegeofsanmateo.edu/testing/.

Financial Aid:
Students enrolled in distance learning courses have access to the financial aid services available to all students through the Financial Aid Services office. In addition, beginning in Fall 2009, CSM’s scholarship program will be administrated directly through the Financial Aid Services office rather than as a separate program.
The Distance Learning website includes a “Money for College” page with links to the Financial Aid Services website, financial forms, and information on fees and scholarships. The Financial Aid Services website provides access to the online Financial Aid Orientation as well as information on types of aid, the application process, and other topics. Students can check their financial aid status through WebSMART. Students can contact Financial Aid Services staff in person, by phone, and through email. See: http://www.collegeofsanmateo.edu/finaid/.

Admissions and Records:
The Admissions and Records website provides easy access to registration instructions, residency requirements, and other information. Most services can be obtained at a distance by email or fax. The Distance Learning website includes a link to the “How to Enroll” site which outlines the registration process. Applications are completed online starting at WebSMART. An online orientation is available at http://www.collegeofsanmateo.edu/orientation.

While matriculating students must come to CSM for placement tests and an initial counseling appointment, the evaluation of previous college work can be initiated by submission of a transcript evaluation form in person, by email, or by fax. Registration is accomplished online through WebSMART. Grades and unofficial transcripts are available to students through WebSMART and official transcripts can be ordered there as well. Students can contact admissions staff in person, by phone, and through email.

Additional Support Services Related to Proposed Change:

CSM’s Distance Learning Web Portal:
CSM has redesigned its distance learning website to be a more effective portal for information about distance learning resources. A direct Distance Learners link from the main CSM webpage takes students to CSM’s distance learning portal, which has been redesigned over the past year to better centralize access to those resources needed by remote students. See: http://collegeofsanmateo.edu/distancelearner.

At CSM’s portal students find information specific to distance learning, including a self-administered “Is Distance Learning for Me?” assessment that evaluates readiness for distance learning, tips and advice for students in distance learning courses, and also convenient links to academic programs, student services, and other information.
SMCCCD Distance Learning Web Portal for Course Registration: In addition, WebSMART, which supports online districtwide registration in classes and contains a schedule of classes, has been completely redesigned and now identifies online and hybrid classes with icons. WebSMART supports a central distance learning portal so that all DL courses offered in SMCCCD are easily identifiable. A student simply clicks on the relevant icons to get listings of all online courses and telecourses as well as hybrid courses. (See figure below.) See: [https://websmart.smccd.edu/webschedule/distance_ed.php](https://websmart.smccd.edu/webschedule/distance_ed.php).

WebSMART Portal to Distance Courses' Registration
Bookstore:
The CSM bookstore maintains a physical store on campus and also a website that allows online shopping. Through the website, students can view and purchase textbooks, supplies, calculators, computers, software, computer accessories, general and reference books, and clothing and other CSM-logo spirit items. Purchases can be picked up at the bookstore or shipped for a small fee. All textbooks are available for online purchase, but rental texts must be paid for in person at the bookstore.

C. DESCRIPTION OF PLANNING PROCESS

C.1. ASSESSMENT OF NEEDS AND RESOURCES:

The needs’ assessment at CSM has had several components, including:

1) Evaluation of program gaps
For more than a decade, CSM has supported the development of online courses and telecourses especially in expanding General Education options and in providing comprehensive career or job training (e.g. the development of job-related Certificates and/or industry-specific certification). Identifying gaps and supporting the development of new courses that fill those gaps has been an ongoing collaborative effort by the Vice President of Instruction, the Dean of Distance Education (appointed in January 2008), Division Deans, and numerous subject-area faculty.

2) Evaluation of enrollment and FTES growth potential
A consistent institutional goal over the past decade has been to implement effective enrollment management strategies that maximize FTES and stabilize resources.

However, CSM’s proportion of FTES that is generated by distance learning courses historically has been well below the regional and statewide averages and evidence suggests the potential for growth.

As reported by the SMCCCD’s Distance Education Advisory Committee, the district as a whole enrolled students at a rate below the statewide average for the 2006-07 academic year: 2% vs. 6.8%. What’s more, several local Bay Area college districts generated more FTES through distance learning, including Foothill-DeAnza COD at 15.3%, West Valley COD at 8.4%, and Ohlone CCD at 7.1%.
These findings also led to the development of the district-supported Structured Training for Online Teaching, a variety of workshops and incentives to encourage the development and delivery of new online courses. (SMCCCD Distance Education Status and Guidelines, April 2008, and SMCCCD Distance Education Strategic Plan, May 2008. [http://www.smccd.edu/edservplan/deac/default.shtml])

More recent data suggest that despite some recent growth, DL at CSM represents a relatively small portion of total student enrollments. In Fall 2008, DL enrollments accounted for only 6.2% of all of the total college course enrollments, still lower than Statewide average of 7.8%. In terms of FTES, CSM’s DL offerings generated 4.4% of total college FTES in Fall 2008. Online courses and telecourses accounted for 2.7% and 1.7% of FTES, respectively. Fall 2008 data also reveals that the proportional share of distance learning FTES generated at neighboring community colleges continues to grow: Foothill-DeAnza CCD: 17.1%; West Valley CCD at 10.0%; Ohlone CCD at 7.1%; and Diablo Valley at 7.9%.

3) Environmental scan data & local needs assessment
A SMCCCD needs assessment study conducted with San Mateo County residents in Fall 2008 indicated that more than 20% of the respondents would prefer to take distance mode courses as a means to access higher education. Of that group, 17% preferred online courses.

In addition, College of San Mateo’s Educational Master Plan, 2008 (EMP), reviewed a variety of environmental scan data that suggest both the growing demand and potential for DL courses and for services delivered online. Students’ expectations about convenience, choice of modality, and access in a high-tech world were among the many findings that support a comprehensive distance learning program.
See: [http://collegeofsanmateo.edu/prie/emp.php]

4) Comprehensive program review of distance learning effectiveness
As noted earlier, in December 2008 CSM reported to ACCJC the results of a comprehensive evaluation of the effectiveness of its DL courses. CSM designed the evaluation process and resulting recommendations to adhere to baseline standards articulated in ACCJC's Distance Learning Manual (2008).
The Fall 2008 evaluation resulted in three outcomes:

1. The implementation of new evaluation processes aimed at ensuring continuous quality improvement for distance learning.

2. **Priorities for CSM’s Distance Learning Program**
   This document is an action plan which identifies priorities for the DL program. The action plan includes the following components:
   - findings from the evaluation
   - activities to address gaps
   - timebound measurable outcomes (target indicators)
   - allocation of resources

3. **Quality Assurance Review of the Distance Learning Program (Quality Assurance Review)**
   This document identified gaps in the program as measured against the ACCJC’s “Current Accreditation Concerns” and “Guidelines for Implementation” from the *Distance Learning Manual (2008)* and consists of a workplan of action steps to be conducted over three years.

**C.2. Planning Processes**

Planning to support both instructional technology and distance learning occurs at both district and college levels and follows a participatory governance model. Instructional technology and distance learning are the purvey of several committees.

**Planning at the District Level:**
SMCCCD’s Distance Education Advisory Committee (DEAC) was established in 2006 with representatives from the AFT, District Academic Senate, and district administration to make recommendations concerning technological changes and distance learning. The committee is co-chaired by a faculty member and the SMCCCD Vice Chancellor of Educational Services and Planning.

Recommendations within its purvey include establishing policies and procedures related to distance learning; districtwide distance learning goals and long range planning; supporting and training for faculty; and policies concerned with the security and surveillance of electronic work. Its charge has also included evaluating districtwide technology needs related to student learning and developing recommendations to enhance the assessment and expansion of distance educational modalities.

For the period 2007 to 2008, DEAC played a key role in evaluating the district’s technology needs and in assessing opportunities to expand distance learning
opportunities districtwide. Informed by research regarding FTES generation, market saturation, and student success outcomes, DEAC developed the SMCCCD Distance Education Status and Guidelines, April 2008, and the SMCCCD Distance Education Strategic Plan, May 2008. See: http://www.smccd.edu/edservplan/deac/default.shtml.

The SMCCCD Distance Education Strategic Plan establishes specific districtwide goals related to expansion of distance learning among the district’s three colleges. They include goals to:

1) Increase student success rates in distance education to be the highest among the Bay Ten Districts.
2) Achieve and maintain 20% annual distance education enrollment growth (seat count) by 2018:
   (a) to increase distance education enrollment to be 10% of total enrollments, and
   (b) to bring distance education FTES to at least the Statewide average.

In addition, a key long-range plan that identifies infrastructure support for all instructional and administrative technologies was also adopted by the district in 2008. See: Information Technology Services: 2008-2012, http://collegeofsanmateo.edu/prie/institutional_documents.php.

As part of a continued effort to maintain the appropriate technology infrastructure, a 2009 goal for the SMCCCD Board of Trustees includes: “[developing] a plan and securing a source of funding for replacement of technology-based equipment which no longer meets minimum standards, such as computers, printers, network components, servers and software applications.” See: SMCCCD 2009 Board Goals: http://www.smccd.edu/accounts/smccd/boardoftrustees/goals.shtml.

Planning at the College:
Beginning in 2008, CSM has implemented an integrated planning model, which is supported by two major planning documents, to set direction for CSM: CSM’s Educational Master Plan, 2008, (EMP) and the strategic plan, Institutional Priorities: 2008-2011. The EMP makes a number of recommendations regarding distance education and the strategic plan includes the following college priorities related to distance learning:
Priority #2: Promote Academic Excellence

Objective: Improve effectiveness of distance learning program

Priority #3: Promote Relevant, High Quality Programs and Services

Objective: Further diversify delivery modes (distance, off-site, short courses, etc.)

The new model has articulated new roles for many institutional committees. This model has required new relationships between and among the committees and governance entities. The new Integrated Planning Committee (IPC) now ensures that annual division-level workplans effectively address Institutional Priorities: 2008-2011 and CSM’s EMP’s recommendations. Working with the Budget Planning Committee, IPC makes recommendations to College Council (the shared governance entity) for allocating resources. College Council, in turn, makes recommendations to the president for final action.

Distance Education Committee’s (DEC) Relationship to other College Committees and Membership:

DEC is comprised of DL and technology discipline experts who also sit on key college-wide committees. DEC is one of six college-wide committees which have a “dotted-line” relationship to IPC which, in turn, reports directly to College Council.

Each of these committees in some way considers the distance learning program in their respective planning efforts and in recommendations they make to IPC regarding the allocation of resources. These committees include: the Technology Committee, Budget Planning Committee, and the Human Resources Committee. Members of IPC also include the Dean of Distance Education, two faculty appointed by the Academic Senate, and other representatives from the key college-wide committees. (See figure below.)
Distance Education Committee’s Mandate:
Broadly, DEC’s mission is to: “create a framework to facilitate the development of distance learning instruction in response to student and community needs.” In addition, as a group of discipline experts, DEC forms a critical role in advising the Committee on Instruction about matters related to approval and review of DL courses and the articulation and enforcement of standards for distance learning at CSM. What’s more, it will help develop strategies to address the achievement gaps between students enrolled in DL mode courses vs. those enrolled in comparable traditional mode courses.

DEC’s charge includes:
- Advising the Committee on Instruction about the review and approval of academic course outlines;
• Advising the Dean of Distance Education regarding issues related to professional development and faculty compliance with standards related to teaching in distance modes;
• Coordinating with the district’s Distance Education Advisory Committee;
• Coordinating with the Center for the Scholarship for Teaching and Learning (SOTL), Centers for Teaching and Learning and Information Technology Services (ITS) regarding training and support needs;
• Implementing the plans, DL Priorities, and the DL Quality Assurance Review; and
• Coordinating with the Technology Committee in the development of the Technology Plan.

The tasks DEC articulated for its work in 2009 have included:
• Helping shape a college vision of distance education;
• Providing direction for course and program development in the distance education mode;
• Guiding departments, faculty and staff towards an efficient, effective, and consistent use of the distance education mode;
• Recommending policies for quality and academic rigor of all distance education classes;
• Encouraging faculty participation in distance learning initiatives and making recommendations on assistance and support in the development of courses, course materials, and the use of appropriate learning technologies;
• Helping guide student accessibility and promote distance education courses as a viable option for pursuing educational goals; and
• Promoting the investigation and use of emerging technologies and resources to support the enhancement of teaching and delivery of distance education courses.

DEC also coordinates planning with the Technology Committee to help ensure that adequate technological resources exist to support the college’s distance learning and other technology-mediated efforts, particularly as the Technology Committee develops a new long-term cost of ownership plan for technology.

Other important planning linkages occur between DEC and CSM’s Assessment Committee and the Committee on Instruction as DEC develops mode-specific SLO’s for the DL program.

_Relationship to SMCCCD Planning Efforts:_
Coordination with the SMCCCD is a critical component of an integrated approach to planning. CSM has created linkages in a variety of ways related to
distance learning to ensure the successful implementation and evaluation of its DL program.

The SMCCCD Vice Chancellor for Educational Services and Planning sits on CSM’s IPC and, as noted above is a co-chair of the SMCCCD’s Distance Education Advisory Committee (DEAC). CSM’s DEC collaborates with DEAC through shared membership which includes CSM’s Vice President of Instruction, the Dean of Distance Education, the DL Coordinator, CSM Academic Senate President, and faculty.

D. INSTITUTIONAL SUPPORT TO DEMONSTRATE QUALITY STANDARDS

D.1. SUFFICIENT AND QUALIFIED FACULTY, MANAGEMENT, AND SUPPORT STAFFING

Faculty:
Between 2004/05 – 2008/09, a total of 97 unique faculty taught the 686 distance learning courses offered. Fifty-four faculty taught the 368 online courses offered; 42 faculty taught the 318 telecourses offered.

Of these 97 faculty teaching all DL courses, 41.2% were full-time. However, 57.4% of faculty teaching online courses were full-time faculty compared to 21.4% of telecourse faculty.

In comparison, the full-time/part-time proportion of CSM faculty teaching traditional coursework is as follows:
- Fall 2004: 33.8% full-time/66.2% part-time (percentages of head count)
- Fall 2008: 29.3% full-time/70.7% part-time (percentages of head count)

DL faculty are subject to the same standards and scrutiny in hiring as are all other faculty at CSM. Job descriptions for new faculty generally require competencies in the use of technology to support learning and a willingness to develop and teach DL courses is desirable. As the popularity of telecourses wanes—reflecting not only the enrollment trend at CSM but statewide trends—experience with and interest in teaching online courses will undoubtedly become increasingly desirable in new faculty.

Beginning in 2008, SMCCCD adopted new guidelines for faculty who wish to teach online courses. Those guidelines include minimal recommendations for faculty to:
- Have experience teaching online and/or plan to get such experience through the SMCCCD Structured Training for Online Teaching (STOT) or equivalent programs.
- Use the official SMCCCD email as his/her primary student contact email.
● Populate the district-supported WebSMART page of all distance learning courses in the district with website for the faculty member’s course. The website must describe the course and provide general pre-semester information (time and place of orientation, contact information for the faculty, book lists, etc.).

● Use eCollege as the primary course management system, if the course is fully online. Subject to the discipline dean’s approval, the faculty member may also use WebACCESS as the primary course management system. If the course is a “web-assisted” course, the faculty member may use either WebACCESS or eCollege.

See: SMCCCD Distance Education Status and Guidelines, April 2008, and SMCCCD Distance Education Strategic Plan, May 2008, http://www.smccd.edu/edservplan/deac/default.shtml.

Professional Development and Mentoring:
The first requirement for training (above) led to the development of a comprehensive professional development training offered to all district faculty throughout 2008 and 2009. The Structured Training for Online Teaching (STOT) is intended to encourage interest in online education and build faculty capacity to teach effectively online; it was designed to incorporate applications of Chickering and Gamson’s Seven Principles for Effective Teaching (1987), the first principle of which states: “Effective practice encourages contacts between students and faculty.”

Faculty have been given stipends for their participation in workshops and reimbursed for registration expenses for @ONE’s online training. STOT has resulted in the development of new online courses throughout the district. Workshop components have included orientations to the two platforms eCollege and WebACCESS, mentoring opportunities, accessibility issues, the four-week @ONE’s Introduction to online Teaching and Learning, and a variety of technical tools as well as best practices in pedagogies.

In addition, the districtwide Centers for Teaching and Learning (CTL), which are currently being phased out, have developed scores of tutorials related to teaching in an online environment.
(See: http://www.smccd.edu/accounts/ctl/.)

These tutorials and other best practices resources will continue to be maintained by the newly-appointed district distance education coordinator who will provide technical assistance to faculty districtwide.
The DL mode approval process (through CSM’s Committee on Instruction) requires review of available course material by both discipline faculty and faculty with DL experience; often these DL-experienced faculty become an informal source of information. CSM’s new Distance Education Committee will formalize this faculty-to-faculty support, serving as an information resource for faculty teaching DL courses (e.g. through posted best practices documents, through individual consultation, through guidelines for online classroom visits).

Finally, faculty have access to three sources of funding for short- and long-term professional development in addition to participating in STOT or CCC@ONE. Options include the President’s Innovation Fund, the Trustees’ Program Improvement Fund, and Professional Development. Throughout the past decade, numerous faculty have developed new online courses and telecourses through this and other financial support.

Faculty Evaluation:
DL faculty historically have been evaluated according to the same guidelines governing the evaluation of faculty teaching traditional courses, subject to contractual agreements with the AFT. In 2008, SMCCCD and the AFT adopted a Memorandum of Understanding with provisions for faculty evaluation to be developed through the joint Trust Committee made up of equal AFT, Academic Senate, and administration representatives. See: http://www.aft1493.org/DistanceEdMOU-9-08.htm.

In Spring 2009, CSM’s new Distance Education Committee (DEC) made recommendations to the SMCCCD’s Trust Committee for a new faculty evaluation form that is explicitly adapted to DL courses. CSM anticipates that a new evaluation form and model will be adopted in the 2009-2010 academic year.

Management:
Management support for distance learning occurs at both the district and college level. SMCCCD’s Vice Chancellor, Educational Services and Planning, provides overall coordination in the area of educational technology for the district. He co-chairs SMCCCD’s Distance Education Advisory Committee.

In 2008 CSM appointed a Dean of Distance Education who also has responsibilities for managing the Coastside program, Community Education, and Study Abroad. A long-time member of CSM’s technology advisory group, she chairs the college’s Distance Education Committee and is active on the Institutional Planning Committee. Beginning in June 2010, the Vice President of Instruction will assume direct oversight of distance learning at CSM.
Support Staffing:  
With the retirement of CSM’s part-time distance education coordinator, the district has created a new SMCCCD Distance Education Coordinator who has considerable experience in providing professional development support for faculty. The new coordinator will be responsible for providing assistance to faculty districtwide who are teaching online, supporting course management systems (eCollege and WebAccess), and coordination of related districtwide distance learning activities, including the districtwide Distance Education Advisory Committee (DEAC). He will also maintain the existing online teacher training tutorials.

Additional part-time staff is assigned to maintain the Distance Education website as well as provide assistance to both telecourse faculty and students. Support staff tasks include: scheduling classes, proctoring exams, managing the videotape library for students viewing telecourses on tape, interfacing with telecourse faculty regarding compensation, scheduling, etc., responding to telephone inquiries about telecourses, among other tasks.

D.2. Appropriate Equipment and Facilities

Technology Infrastructure Support:  
Public television station KCSM located on CSM’s campus is the provider of telecourses and the college pays yearly licensing fees for their broadcast. The district has also invested in two platforms for online course management, WebACCESSS and eCollege, both of which are ADA compliant. Faculty who are developing new online courses are encouraged to adopt eCollege as part of a slow migration to this platform.

This year, the district will adopt CurricUNET, a web-based curriculum management application designed to automate and enhance the development and approval of new curriculum, including distance learning proposals. In adaptation, it will adopt a web-based application, TracDat, to help with the management and assessment of student learning outcomes. TracDat’s templates support uniform reporting that simplifies collection, review, management, and use of data.

SMCCCD’s Information Technology Services (ITS) provides information technology leadership, support staff, and training and assists the three colleges with planning and implementation of their technology initiatives. ITS supports all the operational technology needs, including support for WebSMART, the web interface, that, as noted earlier, is used by faculty and students for a variety of self-service tasks from registration payment to faculty grading. ITS also supports all telecommunications, including an integrated voice messaging service that
consists of email, fax, and voicemail for more than 3,000 accounts. In addition to
managing internet access for the three colleges, ITS maintains wireless access
points on campus and continues to widen the range of this access, especially as
new construction has been underway.

**Student Communications and Tools:**
The college has a variety of tools for communicating with students. A locally
developed application, GWAMAIL, allows for targeted emails. Students (and
faculty and staff) can subscribe to text messaging for emergency
announcements.

Last year, the district implemented a new service for students that directly
impacts online education, providing a variety of tools for teaching and learning.
“Google Apps for Education” is a suite of services that facilitates
communication between faculty and students as well as supports synchronous
collaboration.

Upon course registration at CSM, students automatically receive a
@my.smccd.edu email account that they can keep for life, allowing the college
to stay in communication with alumni. The account has a variety of Google
features including access to free document support (Word, PowerPoint, and
Excel), a calendar, and online document storage.

**D. 3. Fiscal Resources**

Both the District and CSM and dedicate significant resources to supporting
CSM’s DL program described throughout this proposal.

**SMCCCD:**
The district supports the comprehensive technology infrastructure provided to
the three colleges by ITS, as described above in Section D. In addition, it
supports the online course management applications, WebACCESS and
eCollege, at a cost of approximately $135,000 a year. The District also supports
professional development workshop costs for online faculty participating in
Structured Training for Online Teaching and in @One Training. Beginning in Fall
2009, it is underwriting the position for a new SMCCCD Distance Education
Coordinator.

**College of San Mateo:**
CSM provides sustained fiscal support to its distance learning program through a
variety of means. The following section, an overview of financial support for the
most recent fiscal year, is typical of CSM’s sustained support for distance
learning during the last several years.
For FY 2008/2009, CSM dedicated 19.5% of all classroom teaching salaries to distance learning (via online or telecourses). These salaries comprised 3% of the total college budget for this period. In addition, in relation to the total college budget, CSM’s direct support of online courses and telecourses (5%) is consistent with the proportion of enrollments (5%) in distance learning courses for this period. (See figures below.)

<table>
<thead>
<tr>
<th>Total CSM budget</th>
<th>$ 30,252,212</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT and Adjunct Faculty classroom salaries (all courses)(^2)</td>
<td>$ 16,290,494</td>
</tr>
<tr>
<td>FT and Adjunct classroom salaries for online courses and telecourses(^3)</td>
<td>$ 836,816</td>
</tr>
</tbody>
</table>

\(^2\) Includes direct teaching salary costs for classroom teaching (budget line-item codes: 1110 and 1310), Flex (1311), Substitutes (1320), Banked Units (1316), Post-Retirement (1394), Office Hours (1390), and Variables for Large Classes (1395). Excludes costs for non-teaching faculty and benefits.

\(^3\) Includes only direct costs for classroom teaching of online courses and telecourses. Excludes benefits.
As noted above, personnel resources supporting distance learning have included the Vice Chancellor, Educational Services and Planning; CSM’s Dean of Distance Education; the district’s Distance Education Coordinator; and additional staff support provided for telecourse faculty and students, among others. Beginning in June 2010, the Vice President of Instruction will assume direct oversight for distance education.

**Sustainability:**
CSM, like all California community colleges, is facing budgetary challenges; however, it is committed to sustaining support for its distance learning programs as described here. In addition, the new college-wide Technology and Budget plans (Fall 2009) developed as part of the integrated planning structure include immediate and longer-term goals for upgrading instructional and administrative technology resources.

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4 Includes only direct costs for classroom teaching of online courses and telecourses. Excludes benefits.

5 Telecourses comprise approximately 28% of KCSM total broadcasting hours, generally 200 hours a month.
They specifically address one of the priorities in the college’s strategic plan, Institutional Priorities: 2008-2011:

**Priority #4: Promote integrated Planning, Fiscal Stability, and the Efficient Use of Resources**

(Objective) Develop both short-term and long-term plans for maintaining currency in equipment and technology that accurately reflect the total cost of ownership.

The college priority reflects the SMCCCD Board of Trustees' 2009 goal, described earlier, to address cost-of-ownership challenges in the district and “secure a source of funding for replacement of technology-based equipment which no longer meets minimum standards.” (SMCCCD 2009 Board Goals: [http://www.smccd.edu/accounts/smccd/boardoftrustees/goals.shtml](http://www.smccd.edu/accounts/smccd/boardoftrustees/goals.shtml)) Activities to meet CSM’s ongoing technology needs will be coordinated with the district efforts.

**D. 4. PLAN FOR MONITORING ACHIEVEMENT OF DESIRED OUTCOMES**

The DL programs are intended to improve student access to higher education and preparation for the workplace. CSM anticipates improved rates of degree and certificate achievement as well as transfer as CSM begins to more broadly market these opportunities. (Marketing of CSM’s distance learning offerings historically has been limited.)

For many years, CSM has had compatible institutional goals to increase the use of alternative instructional delivery modes to implement a comprehensive, research-based enrollment management and full-time equivalent student (FTES) growth plan. The new iteration of the college’s strategic plan, Institutional Priorities 2008-2011, is a key component of the integrated planning model and reframes these long-standing goals. Several objectives are articulated for each of the six college priorities; these objectives include improving the effectiveness of the distance learning program and maintaining FTES. (See Appendix J.)

Progress in meeting those objectives will be measured by a new College Index, 2009. The College Index contains measurable institutional indicators such as “Program Enhancements for Distance Education” which are aligned with the Institutional Priorities. (See Appendix K.) Additional indicators tied to the DL program include:

- FTES and enrollment in telecourses and online courses
- Retention in telecourses and online courses
- Course Completion in telecourses and online courses
Rates of educational goal attainment
SLO’s assessments

In addition, CSM’s new model for Program Review relies on student outcome data disaggregated by student demographic variables (e.g. ethnicity, age, gender, etc.). Comparative data on student success (DL mode vs. traditional mode) have been published for Fall 2005-2007. (See: http://www.collegeofsanmateo.edu/prie/distanceEd_comparison_3.php.)

This data will be updated and analyzed annually as part of the Program Review process in addition to qualitative data from satisfaction surveys of faculty and students. (CSM’s most comprehensive comparative study of student outcomes in DL courses was completed in Fall 2008.)

These indicators will be analyzed by the Office of Planning, Research, and Institutional Effectiveness (PRIE) and monitored by IPC and the Distance Education Committee to ensure the program meets its goals and that student outcomes in DL mode courses continue to improve.

E. EVIDENCE OF APPROVALS

All telecourses and online courses are approved by CSM’s Committee on Instruction in their distance mode and by the San Mateo County Community College District’s Board of Trustees.

F. EVIDENCE THAT EACH ELIGIBILITY REQUIREMENT WILL STILL BE FULFILLED

F.1. CERTIFICATION OF CONTINUED COMPLIANCE WITH ELIGIBILITY REQUIREMENTS

College of San Mateo continues to meet each of the twenty-one eligibility requirements for accreditation set forth by the Western Association of Schools and Colleges.

Factual updates as well as improvements are included below:

1. Authority
College of San Mateo’s authority to operate as a degree granting institution is its continuous accreditation by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges. This Commission is recognized by the Commission on Recognition of Postsecondary Accreditation and by the United States Department of Education. This authority is noted on the table-of-contents page of CSM’s Catalog, 2009-2010. The catalog is available online as a “flipbook.” See: http://collegeofsanmateo.edu/schedule/.
2. Mission
The Mission Statement of College of San Mateo was originally adopted by the College Council in December 2001 and updated in February 2005. The San Mateo County Community College Board of Trustees approved the revised statement in April 2007. The current statement is found in the general information section, page 3, of CSM’s Catalog, 2009-2010, accessible through the online directory for CSM’s website, and posted on the “About CSM” page of CSM’s website:
See: http://www.collegeofsanmateo.edu/statements.

The programs proposed here are consistent with CSM’s mission to serve the diverse needs of its students as an open-access institution committed to offering “comprehensive, quality programs and services.”

3. Governing Board
The San Mateo County Community College District (SMCCCD), which includes College of San Mateo, is governed by a six-member board, five of whom are elected at large by county voters and one of whom is a student trustee elected by the colleges’ associated students. The board normally meets twice a month; generally one of these meetings is a study session. On each board agenda there is the opportunity for presentations or statements from the public as well as for statements from various college constituents. The board adheres to its conflict of interest policy. To the best of the college’s knowledge, no board member has employment, family, or personal financial interests related to the college or the district. See: http://www.smccd.edu/accounts/smccd/boardoftrustees.

All distance courses are approved by the SMCCCD Board of Trustees.

4. Chief Executive Officer
Each chief executive officer of the college is appointed by the Board of Trustees. The current chief executive officer of College of San Mateo is Michael Claire, whose primary responsibility is to the institution. He was appointed in 2007.

5. Administrative Capacity
In general, College of San Mateo has sufficient administrative staff to support its mission and purpose. Appropriate administrative preparation and experience are addressed as part of the employment process.
Management support for distance learning occurs at both the district and college level. Beginning in June 2010, CSM’s Vice President of Instruction will assume direct oversight for online and telecourses at the college.

6. Operational Status
Students at College of San Mateo are enrolled in a variety of courses and programs leading to associate degrees and occupational certificates. A student body currently numbering approximately 11,000 students pursues degree and other educational objectives.

7. Degrees
A substantial portion of College of San Mateo’s programs, approximately 80%, lead to either an Associate in Arts or Associate in Science degree. In Fall 2009, approximately 55% of CSM’s students were enrolled in these degree programs. Of the remaining students, the largest proportion, 30%, were undecided about their educational objective.

Fifty-seven (57) of the 76 degrees listed in CSM’s Catalog, 2009-2010, are substantially available at CSM through a DL mode. They comply with Title 5 regulations and represent the same quality, breadth, and rigor as programs delivered in a face-to-face mode.

8. Educational Programs
College of San Mateo’s educational programs are congruent with its mission, are based on recognized fields of study, are of sufficient content and length, and are conducted at levels of quality and rigor appropriate to the degrees and certificates offered. Degree and certificate requirements are also consistent with Title 5. The college is in the process of assessing student learning outcomes at all levels. An Associate degree program typically requires 60 units and are two academic years in length.

As noted above, DL mode programs proposed here represent the same quality, breadth, and rigor as programs delivered in a face-to-face mode.

9. Academic Credit
The awarding of academic credit at College of San Mateo is based on Title 5 (Section 55002) of the California Code of Regulations.

All DL mode courses are subject to the same rigor and review as face-to-face courses and comply with the provisions of Title 5.

10. Student Learning Achievement
College of San Mateo is currently engaged in defining, publishing, and assessing expected student learning and achievement outcomes (SLO’s)
for each department/program/unit and course. As reported to the Commission in May 2009, institutional-level General Education SLO’s have been identified, 91% of all courses have SLO’s identified, and 100% of student and learning support activities have SLO’s identified. Through regular and systematic assessment, CSM is demonstrating that students achieve these outcomes.

SLO’s for DL courses are approved, administrated, and assessed with the same standards as traditional face-to-face instruction. In addition, DL courses leading to a certificate address relevant certificate SLO’s and General Education DL courses address college-approved General Education SLO’s.

Comprehensive information about CSM’s SLO’s is available online at: http://collegeofsanmateo.edu/sloac/slos.

11. General Education
College of San Mateo incorporates into its degree programs from 26 to 36 units of General Education distributed among the major areas of knowledge; these areas ensure breadth of outlook and contribute to a balanced education. Graduation requirements include competency in mathematics/quantitative reasoning and English. The General Education component is consistent with Title 5 degree policies (Section 55806) and statewide standards. Student learning outcomes are currently being assessed.

As noted above, quality, rigor, and breadth of offerings are maintained for all DL-mode General Education courses. Ninety-six percent (96%) of General Education course requirements may be completed in a DL mode for students earning an Associate of Arts/Science degree at CSM.

12. Academic Freedom
The San Mateo County Community College District, which includes College of San Mateo, is dedicated to maintaining a climate of academic freedom and encouraging the sharing and cultivation of a wide variety of viewpoints. Academic freedom expresses the college’s belief in inquiry, informed debate, and the search for truth; academic freedom is necessary in order to provide students with a variety of ideas, to encourage them to engage in critical thinking and to help them understand conflicting opinions.
SMCCCD’s and CSM’S rules, regulations, and practices regarding academic freedom apply equally to DL mode courses as they do their traditional format counterparts.

13. Faculty
The College of San Mateo faculty, as of Fall 2009, is comprised of 138 full-time contract faculty (instructional and non-instructional) as well as 304 adjunct or hourly faculty (instructional and non-instructional). The degrees and length of college service for full-time faculty are listed in CSM’s College Catalog, 2009-2010. Faculty responsibilities include the development and review of curriculum and assessment of learning. Responsibilities are articulated in CSM’s Faculty Handbook 2009-2010 available at: http://collegeofsanmateo.edu/prie/institutional_documents/CSMFacultyHandbook_2009-10.pdf.

DL faculty are subject to the same standards and scrutiny in hiring and evaluation as are all other faculty at College of San Mateo.

14. Student Services
College of San Mateo acknowledges the importance of providing appropriate student services and student development programs to its diverse student body in order to facilitate access, progress, and success. Student services uses a student-centered service model. Major areas of student services are as follows: admissions and records; assessment; financial aid; scholarships; international student center; counseling, advising and matriculation; career services; DSPS; EOPS; multi-cultural center; psychological services; transfer services; student employment; articulation; health services; child development center; relations with schools; student activities; and CalWORKs. The college’s services and programs for students are consistent with its mission.

Distance learning students have access to the services available to all CSM students; in many cases (for example, counseling), the online options are extended for students who cannot visit campus easily.

15. Admissions
The College of San Mateo’s admissions policies and practices are consistent with its mission, district Board of Trustees’ policy, the California Education Code, and Title 5 regulations. Information about admission to programs with limited enrollment is found in the admissions section of CSM’s Catalog, 2009-2010, every term’s Schedule of Classes, and online at: http://www.collegeofsanmateo.edu/admissions.
Prospective DL students are governed by the same admissions policies as traditional-mode students. Application and course-registration processes are completely available online.

16. Information and Learning Resources
College of San Mateo and San Mateo County Community College District support students and employees with a wide range of information and learning resources. The College of San Mateo Library, through its physical facilities and collections and through its online resources, provides students with access to information in electronic and printed form. Library course offerings, librarians, and online tutorials provide support to students as they use this information. The library also works closely with faculty to ensure that they and their students are aware of physical and electronic resources relevant to specific courses.

In addition, 17 discipline-specific Labs and Centers provide students with tutoring, computer access, specialized software applications, subject-matter resources, and specialized equipment. As directed by the ACCJC in 2007, these programs completed a comprehensive Program Review in early Fall 2009.

Student services units make extensive use of the college website and email to provide students with information and services. The new Distance Learner portal on the college website provides convenient access to educational and student services. KCSM, the public-supported television station, broadcasts telecourses.

Computers, software, network access (including wireless), and telephone services are provided at the District level through Information Technology Services (ITS). ITS supports WebSMART, the web interface used by faculty, students, and staff for most administrative tasks. The schedule section of WebSMART has been improved to highlight DL courses. ITS also provides support for two course management systems, the use of Google Apps for Education and the posting of course material at iTunesU. The district-level distance education coordinator provides assistance to faculty individually, through posted tutorials, and through districtwide distance learning activities.

17. Financial Resources
College of San Mateo’s financial resources come primarily from the State of California; additional resources come from other sources such as grants, federal funds, and auxiliary services. The district maintains a contingency reserve. The College has sufficient resources to support its mission and to monitor and improve institutional effectiveness.

Budget planning takes place at both the district and college levels. At the college level, administrators, faculty, classified staff, and students have
opportunities to participate in budget development. Budget planning is divided into two main categories: the long-term financial plan and the annual budget. As part of the new integrated planning model, budget planning is the charge of the Budget Planning Committee whose mission is to ensure that: “the college maintains fiscal stability and that financial resources are allocated in accordance with agreed upon College priorities established by the Integrated Planning Committee.”

CSM has revised budget planning processes so that budget planning is fully integrated with the college strategic plan (Institutional Priorities 2008-2011), institution-level plans, Program Review, and annual college and division/unit-level work plans. Furthermore, Program Review has been revised so that budget planning decisions are connected to SLOs and assessment.

Financial resources for distance learning are comprised of SMCCCD support for district-wide efforts and direct college support. District-wide resources include support for a comprehensive information technology infrastructure, course management applications, faculty professional development, and management and staff support. College resources include those dedicated to KCSM and the operations of telecourses as well as multiple resources dedicated to supporting the faculty, staff, and administrators who deliver the distance learning program.

18. Financial Accountability
An independent certified accounting firm conducts year-end audits of the San Mateo County Community College District, which includes College of San Mateo. These audits, conducted in accordance with generally accepted audit standards, include a review of the previous year’s recommendations, financial documents, expenditures, and internal control processes. If an audit yields an exception, the exception is responded to in a report to the auditors and to the Board of Trustees.

19. Institutional Planning and Evaluation
Institutional planning at College of San Mateo involves administrators, faculty, classified staff, and students via college governance bodies, standing institutional committees, and ad hoc groups convened to address specific planning issues.

In 2008 CSM implemented a new integrated planning model that promotes: 1) well-defined relationships between key planning entities and institutional plans; 2) use of a variety of internal and external data to inform decisions and to facilitate evaluation at all levels; 3) the continued assessment of SLO’s; 4) transparent and predictable planning processes; and 5)
mechanisms to evaluate the effectiveness of decisions as well as planning processes.

To support evidence-based decision making, key components of this planning model have included the development and adoption of a new:

- **Educational Master Plan, 2008**
  (See: [http://www.collegeofsanmateo.edu/prie/emp.php](http://www.collegeofsanmateo.edu/prie/emp.php))
- **Institutional Priorities 2008-2011** (See Appendix J.)
- **College Index, 2009** (Core measurable indicators aligned with Institutional Priorities 2008-2011) (See Appendix K.)
- **Program Review and Program Improvement Viability Processes**
  (See: [http://www.collegeofsanmateo.edu/prie](http://www.collegeofsanmateo.edu/prie))
- **New mission and models for Institutional Committees**
  (See: [http://www.collegeofsanmateo.edu/prie/emp.php](http://www.collegeofsanmateo.edu/prie/emp.php))

A variety of quantitative and qualitative data to support decision-making and the evaluation of institutional effectiveness are now available online at: [http://collegeofsanmateo.edu/prie/](http://collegeofsanmateo.edu/prie/).

The new integrated planning model also establishes specific processes to ensure effectiveness within CSM’s distance learning program. Its importance is reflected in CSM’s strategic plan, **Institutional Priorities: 2008-2011**, which includes the following college priority:

*Priority #2: Promote Academic Excellence*

(Objective) Improve effectiveness of distance learning program

Strategies to help ensure effectiveness in distance learning courses include, among others:

- The identification of measurable indicators for distance education in the **College Index, 2009**, and in the **Comprehensive Listing of Indicators and Measures Aligned with Strategic Priorities, 2009**;

- Processes to regularly generate and analyze comparative student success and retention data related to distance education and disaggregated by demographic variables;

- Processes to conduct regular qualitative surveys of student and faculty participants in distance learning courses; and

- The establishment of new institutional planning committees, the Technology Committee and Distance Education
Committee, charged with making recommendations to the Integrated Planning Committee regarding strategic directions for distance learning and the allocation of resources for it.

20. Public Information
College of San Mateo annually reviews and publishes in its catalog, schedule of classes, and/or on its website comprehensive and accurate information regarding admission, rules and regulations, degrees, costs and refunds, grievance procedures, academic credentials of faculty and administrators, and other information concerning college functions. The mission statement addresses the college's purposes and objectives.

The catalog, schedule of classes, and other informational resources are also available online via the college website: http://collegeofsanmateo.edu. In addition, a single portal is designed to provide distant learners with key information: http://collegeofsanmateo.edu/distancelearners/.

21. Relations with the Accrediting Commission
The SMCCCD Board of Trustees assures that College of San Mateo adheres to the requirements, standards, and policies of the Accrediting Commission for Community and Junior Colleges; describes itself in the same manner to all its accrediting agencies; communicates changes, if any, in its status; and discloses information required by the Commission.

G. EVIDENCE THAT EACH ACCREDITATION STANDARD WILL BE FULFILLED

G.1. CERTIFICATION OF THE CONTINUED MEETING OR EXCEEDING OF ALL ACCREDITATION STANDARDS

In January 2009, ACCJC removed CSM from Warning status and reaffirmed accreditation. The College has submitted the Follow-up Report on October 15, 2009, to document resolution of several recommendations made by the Commission in January 2008 following the ACCJC evaluation team visit in October 2007.

CSM continues to meet the accreditation standards. The following section addresses the four standards briefly for purposes of documenting several new practices.
Standard I: Institutional Mission and Effectiveness
The institution demonstrates strong commitment to a mission that emphasizes achievement of student learning and to communicating the mission internally and externally. The institution uses analyses of quantitative and qualitative data and analysis in an ongoing and systematic cycle of evaluation, integrated planning, implementation, and re-evaluation to verify and improve the effectiveness by which the mission is accomplished.

ACCJC, 2002

A. Mission
As noted in Sections B and J, CSM’s Mission statement includes an institutional commitment to providing access to a range of lower-division instructional programs and related support services. The Mission is adopted by the San Mateo County Community College District and is published in the college catalog and on CSM’s website.

Last revised in 2005 by the shared governance entity, College Council, the Mission statement will be reviewed regularly as part of the new integrated planning model, adopted by CSM in 2008. The integrated planning model has structured the development, implementation, and assessment of key college plans and planning processes—including review of the Mission, Diversity, Values, Vision statements—on a calendar aligned with the accreditation cycle.

B. Improving Institutional Effectiveness
As noted above and in Section C, CSM has adopted a new integrated planning model which supports evidence-based decision-making processes.

The overarching goals of CSM’s institutional planning efforts are to ensure that CSM meets the needs of students by establishing and measuring SLOs, that it responds to the ever-changing educational needs of the community at large, and that resources are aligned so that it can achieve these goals. Inherent in this planning system is a well-defined integration of key institutional plans; a reliance on internal and external data to inform decision-making and to facilitate evaluation at all levels in the organization; transparent and predictable planning processes; and mechanisms to evaluate the effectiveness of decisions made as well as planning processes.

CSM’s Educational Master Plan, 2008; the college’s strategic plan, Institutional Priorities 2008-2011, and the new Program Review model—incorporating SLO’s and their assessment—form the core of the college planning efforts, including a linkage to the SMCCCD Strategic Plan, 2008-2013. Program Review is a critical tool in this integrated planning model: its results inform decision making and the allocation of resources, both material and personnel. The integrated planning model defines explicit links between district planning, institution-level plans, college programs and services, and student learning. (See figure below.)
To support the new planning model, in February 2008 CSM established the Office of Planning, Research, and Institutional Effectiveness (PRIE) as a campus-wide resource available to all faculty and staff. Its mission is to enhance institutional effectiveness by providing information, analysis, training, and research that supports the operation, decision-making, and planning processes of the College community. PRIE is responsible for conducting a wide range of analytical support and consultative services, including support of institutional planning as a participatory process.

PRIE is also responsible for providing the student outcomes data that inform the new program review process. Comprehensive data about student success for more than 50 programs is now disaggregated by demographic variables. While distance learning courses are included in the new program review process (and subject to the same standards as traditional-format courses), PRIE supplies
additional qualitative and quantitative data for distance learning courses making mode comparisons of student success available.

As noted above in Eligibility Requirement #19, improving the effectiveness of the distance learning program is an objective articulated in Institutional Priorities 2008-2011. As a result, CSM has established a variety of mechanisms to ensure that quantitative and qualitative data inform the evaluation of and subsequent improvements in distance education-related programs and offerings.

**Standard II: Student Learning Programs and Services**

The institution offers high-quality instructional programs, student support services, and library and learning support services that facilitate and demonstrate the achievement of stated student learning outcomes. The institution provides an environment that supports learning, enhances student understanding and appreciation of diversity, and encourages personal and civic responsibility as well as intellectual, aesthetic, and personal development for all of its students.

*ACCJC, 2002*

**A. Instructional Programs**

As noted in Section F, the college continues to make progress in the development and assessment of Student Learning Outcomes (SLO’s). As reported to the Commission in June 2009, CSM has adopted institution-level General Education SLO’s, 91% of courses have SLO’s identified, and 100% of learning support activities have SLO’s identified. SLO’s assessment is also now a component of the Program Review process which in turn is tied to the allocation of resources.

Progress in the development and assessment of SLO’s is supported by the SLO Assessment Coordinator and the College Assessment Committee (CAC). CAC is a subcommittee of the Academic Senate, includes broad representation from the college community, and members sit on Academic Senate Governing Council, Committee on Instruction, and the strategic planning entity, the Integrated Planning Committee. In addition, as noted earlier, this year the district will adopt the web-based application, TracDat, to help with the management and assessment of student learning outcomes.

SLO’s for DL courses are approved, administrated, and assessed with the same standards as traditional face-to-face instruction. DL courses leading to a certificate address relevant certificate SLO’s and General Education DL courses address college-approved General Education SLO’s.

In addition, SLO’s specific to DL modes include the following: 1) “Students will demonstrate appropriate web-based communications and use of social networking tools.” 2) “Students will effectively navigate the course website, including such activities as file uploads and downloads, email, and test taking.”
CSM maintains the same standards, quality, and breadth in its DL mode offerings as it does in its traditional-mode courses and CSM’s institutional review mechanisms ensure their integrity. All distance-mode courses are reviewed and approved by the Committee on Instruction (COI) to ensure rigor and compliance with Title 5 and they must meet the same requirements as traditional-mode courses. In addition, COI’s review encompasses other supplemental areas specific to the distance mode, including: the course’s proposed instructional media, types of student participation, methods of student evaluation, representative courseware and/or materials, assignments, and types of proficiency demonstrations (e.g. testing arrangements).

These quality assurance mechanisms yield results: CSM continues to rank above the Statewide average in both transfer rate and degree/certificate completion rate. Since the inception of the Student Right To Know (SRTK) tracking in 1998, CSM has consistently ranked above Statewide transfer rates and degree/certificate completion rates. Ninety-four percent of the college’s courses are transferable to the CSU. CSM maintains course-to-course and major preparation agreements with all campuses of the UC and CSU as well as transfer articulation agreements with nearly 50 private colleges and universities.

CSM also maintains very strong linkages with local high schools. In Fall 2008, the college enrolled 310 concurrent enrolled high school students in on-campus courses offered at CSM; another 296 students were enrolled in CSM courses offered at high school campuses; and 69 students were enrolled in CSM’s Middle College High School.

B. Student Support Services
CSM continues to offer comprehensive student services. As described in Section B, many student services resources formerly available only in person are now available online for remote students.

In addition, today CSM’s High School Relations Program is a part of the college’s comprehensive counseling, outreach, and recruitment program designed to provide information to high school students, parents of high school students, and high school counselors, teachers, and support staff about the opportunities available at CSM. Included among the services provided to students are: participation in college fairs/nights, college presentations, application workshops, College Connection Concurrent Enrollment Information Nights, and Career & Educational Planning Inventory presentations. To increase access for underrepresented students, CSM also conducts outreach activities for African-American and Latino students. In addition, the college maintains a robust Student Ambassador program involving students representing CSM at local feeder high schools.
Student services programs participate in the new program review process along with their instructional counterparts. As part of the new integrated planning model, program review includes assessment of SLO’s as well as a variety of qualitative and quantitative data.

C. Library and Learning Services
As detailed in Section B, CSM’s Library provides students with access to information in electronic and printed form. Library course offerings, librarians, and online tutorials provide support to students as they use this information.

The library supports a print collection of approximately 71,000 volumes and 250 periodical subscriptions, a microfilm/microfiche collection, and a more limited collection of audiovisual materials, including videocassettes and printed supplements used in telecourses. In addition, a variety of online resources provide access to books, journals, magazines, newspapers, and subject-based research sources.

In addition to the physical collection, course reserves, and study space, students in the library have access to approximately 50 computers with wired or wireless internet access. The library also maintains a well-designed website that enables students, faculty, and staff to access library resources 24 hours a day from any computer connected to the internet.

CSM also offers 17 discipline-specific Labs and Centers where students can get assistance and tutoring, use subject-matter resources, use specialized equipment, and work on computers with specialized software applications. Several of these programs have online resources. A comprehensive program review of all these programs was completed in early Fall 2009.

Standard III: Resources
The institution effectively uses its human, physical, technology, and financial resources to achieve its broad educational purposes, including stated student learning outcomes, and to improve institutional effectiveness.

ACCJC, 2002

A. Human Resources
CSM’s culture of participatory governance is enhanced through the new integrated planning model that embraces contributions from all constituencies. Faculty, staff, and administrators participate in College Council, President’s Council (an expanded President’s Cabinet), the Integrated Planning Committee (IPC), and several institutional planning committees which report directly to IPC. The Academic Senate and Associated Students are also active participants. In
addition, various stakeholders actively participate in the district-level governance.

At the district level, the Office of Human Resources Department supports the district’s complex human resources needs and assists the district’s colleges in attracting and maintaining a diverse workforce.

At the college level, the new integrated planning model has called for the establishment of the now active Human Resources Committee. Its mission is to ensure that CSM has provided sufficient personnel in all employee classifications to carry out the college mission and to support student learning in accordance with CSM’s Educational Master Plan, 2008, and the goals in the Strategic Plan (Institutional Priorities 2008-2011).

Its charge includes:
- Developing a long-term Human Resources plan that is aligned with the Strategic Plan’s long-term goals of the college and the district.
- Developing an annual assessment of the college’s human resources needs in light of retirements and separations, and anticipated areas of problem growth or decline.
- Developing an annual forecast of employee retirements and separations and using the results of the forecast to assist the Budget Planning Committee in their planning efforts.
- Periodically assessing the college’s classified staffing structure, instructional staffing structure, and administrative structure to ensure that these structures are aligned with current and future college needs.

B. Physical Resources
CSM opened in 1963 on its current campus of 153 acres atop the hills of San Mateo. Over the span of nearly 40 years no new construction and minimal renovation of facilities had occurred. With the passage of local Bond Measures (C in 2001 and A in 2005), CSM has been witnessing major changes in the building and renovation of its facilities and grounds, including opportunities to upgrade and replace a variety of instructional and other equipment.

Measure C culminated in the building of a new public safety training facility, a new state-of-the-art science building, planetarium, and observatory as well as a variety of improvements and seismic upgrades to physical education facilities, KCSM’s facility, and many classrooms. Measure A construction projects are now underway with $215 million underwriting the building of a new Allied Health and Wellness building; a new fitness and aquatic center; a new College Center housing a “one-stop” student services center; and a new multi-discipline Learning Center. Modernization is also occurring in a variety of classrooms and
faculty office buildings, including the installation of high-tech “SMART” classrooms and meeting areas. A new north entrance to the campus has been designed as well.

Facilities planning for major capital projects has been guided by the SMCCCD Facilities Master Plan completed in 2003 that governed the direction of Measure C projects. A plan update was conducted in 2005-06 and CSM completed its own 2006 Facilities Master Plan to shape priorities for Measure A. As noted above, CSM also completed its own Educational Master Plan, 2008, in Fall 2008. The 2006 Facilities Master Plan priorities are aligned with planning assumptions and recommendations articulated in the EMP.

In addition to educational and facilities master planning, the college’s new Institutional Priorities 2008-2012 and new Program Review process (implemented in 2008/09) inform short- and long-range facilities planning and the allocation of resources.

As required by law, the district appointed a Bond Measure Oversight Committee charged with ensuring compliance with the voter-approved initiatives.

C. Technology Resources
As discussed in Section D, support for the college’s technology infrastructure is maintained by SMCCCD’s Information Technology Services (ITS). Planning for technology and distance learning occurs at both the district and college levels. In addition to the role described in Section C for CSM’s new Distance Education Committee, the college’s reconvened Technology Committee is also integral to the integrated planning model. The Technology Committee’s mandate is to ensure that CSM provides and maintains adequate technological resources to support student learning and to coordinate its efforts with district planning.

Its charge includes:
- Developing a long-term technology plan that is aligned with the long-term goals of the college and the district.
- Developing an annual assessment of the college’s future technological needs in light of advances in technological capabilities and technological needs created by new pedagogical approaches.
- Working with the Budget Planning Committee to create and to finance a Total Cost of Ownership model, which includes identifying funding sources for the replacement of outdated technology.
- Working with the Distance Education Committee to ensure that adequate technological resources exist to support the college’s distance education and other technology-mediated efforts.
As noted earlier in Section D, Fiscal Resources, both the SMCCCD’s Board of Trustees and CSM have articulated goals for maintaining currency in equipment and technology that accurately reflect the total cost of ownership. Among the strategies being considered, is a yearly set-aside from contingency funds.

D. Financial Resources
As noted above, budget planning occurs at both the district and college level. In allocating the annual budgets of the individual colleges, the San Mateo County Community College District uses a budget allocation model that considers FTES, among other factors.

At CSM, resource allocation decisions are framed by the new integrated planning model. Decisions about the allocation of new faculty positions and equipment, for example, are tied directly to Program Review. The Budget Planning Committee (BPC), whose members represent all college constituencies, has a new role in this integrated planning model. Its overarching mission is to ensure that CSM maintains fiscal stability and that financial resources are allocated in accordance with agreed upon college priorities established by the Integrated Planning Committee.

Its charge includes:
- Developing long-term and short-term financial plans that are aligned with the College’s Strategic Plan (Institutional Priorities 2008-2012) and the Education Master Plan, 2008.
- Recommending an annual operating budget to the Integrated Planning Committee.
- Monitoring the college operating budget on a quarterly basis and recommending corrective actions if necessary.
- Making recommendations to the Integrated Planning Committee with respect to funding available for staffing levels of faculty, classified staff, and administrators in conjunction with the Human Resources Committee per fiscal year.
- Establishing regular communications with the campus community regarding college budget matters.

As noted previously, college priorities articulated in Institutional Priorities 2008-2011 include goals to improve the effectiveness of distance education and to diversify delivery modes in programs and services. Reflecting the integrated planning model, these college priorities ensure that BPC will allocate the resources necessary to sustain support of CSM’s distance learning programs. Section D, Fiscal Resources, illustrates the significant resources allocated to support distance learning at CSM.
Standard IV: Leadership and Governance

The institution recognizes and utilizes the contributions of leadership throughout the organization for continuous improvement of the institution. Governance roles are designed to facilitate decisions that support student learning programs and services and improve institutional effectiveness, while acknowledging the designated responsibilities of the governing board and the chief administrator.

ACCJC, 2002

A. Decision-Making Roles and Processes

As discussed in several sections, CSM is implementing an integrated planning model that is guided by CSM’s Educational Master Plan, 2008, the college’s strategic plan, Institutional Priorities 2008-2011, a new Program Review process, as well as linkages to the District’s SMCCCD Strategic Plan, 2009, and the SMCCCD Facilities Master Plan, 2006.

As noted earlier, CSM follows a participatory shared-governance model in which staff, faculty, administrators, and students serve on key committees and share in decision-making. Institutional Committees now report to the Institutional Planning Committee, which makes recommendations to CSM’s primary shared governance entity, College Council. (See figure below.) College Council, whose membership includes representatives from all college constituencies, makes recommendations to the CSM president, who is CSM’s chief executive. He, in turn, reports to the SMCCCD Chancellor who is the chief administrator for the district.
B. Board and Administrative Organization

Both CSM and the district have made progress in addressing the ACCJC’s 2008 Recommendation #9. (Progress and resolution was reported in CSM’s Follow-Up Report submitted to the Commission on October 15, 2009.)

As recommended, an evaluation process has been developed for college presidents and a process is now established for regular evaluation of the “rules and regulations” of the Board of Trustees. The district and three colleges are implementing a process to regularly evaluate the delineation of functions.
Appendix A

College of San Mateo

Degrees Substantially Available through Distance Learning

Associate degrees with 50% or more of required units available through courses approved for distance learning (DL) mode. Degree requirements are from the 2009-10 catalog. Where degree has a range of units, the limit that gives the highest DL percentage is used.

\[ \text{DL availability} = 100 \times (\text{DL Units})/(\text{Required Units}) \]

Notes:
1. All associate degree general education requirements except physical education are available in DL mode.
2. DL availability is calculated assuming minimum units for Physical Education (1 unit) and minimum units for other general education areas (25 units); the total number of general education units is taken as 26.
3. Elective units are assumed to be available through DL.
4. Degree Units is the greater of 60 and (major units + 26 general education units). Where this results in Degree Units > 60, the total is adjusted to allow excess major units to apply toward general education where appropriate.
5. DL availability is calculated as \[ 100 \times (\text{Degree Units} - (\text{Major Units} - \text{DL Major Units} - 1 \text{ PE unit}))/(\text{Degree Units}) \].

Degrees substantially available through DL: 57 (of 76 degrees in the 2009-10 catalog).

The only majors that do not meet the 50% threshold for substantial availability through DL are those requiring 30 or more major units that are not available through DL.

<table>
<thead>
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<th>Degree</th>
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<th>DL Major Units</th>
<th>Degree Units</th>
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Appendix B
College of San Mateo
Certificates Substantially Available through Distance Learning

Certificates with 50% or more of required units available through courses approved for distance learning (DL) mode. Certificate requirements are from the 2009-10 catalog. Where a certificate has a range of units, the limit that gives the highest DL percentage is used.

DL availability = 100*(DL Units)/(Required Units)

Certificates of Achievement (CA) substantially available through DL: 14
Certificates of Specialization (CS) substantially available through DL: 15

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<th>DL Units</th>
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Appendix C
College of San Mateo
Associate in Arts/Science Degree Requirements
General Education and other Requirements
Available through Distance Learning (DL)

A. Residence
Requirement: A minimum of 12 units must be completed at College of San Mateo. Also note information under MAJOR.
DL Options: More than 12 units are available; see also list of majors.

B. Scholarship
Requirement: A minimum grade point average of 2.0 is required in all degree applicable coursework.
DL Options: Independent of mode.

C. Competency Requirements
1. Math/Quantitative Reasoning Competency
   Requirement: Completion of or placement beyond Math 120 Intermediate Algebra.
   DL Options: Math 120 (and its prerequisite, Math 110)

2. English Competency
   Requirement: English 100
   DL Options: English 100

D. Major
   See separate information on majors; at least 12 units of major courses must be completed at CSM

E. General Education
1. American History and Institutions, CA State and Local Government
   Requirement: Option 1 – PLSC 200
   or
   Option 2 – Group 1 plus Group 2
   DL Options: Option 1 – PLSC 200
   Option 2 – Group 1: PLSC 210 or (HIST 101 and HIST 102)
   Option 2 – Group 2: PLSC 310

2. Language and Rationality
   a. English Composition
      Requirement: 3 units from ENGL 838, 848, 100, or ESL 400
      DL Options: ENGL 100
   b. English, Literature, Speech Communication
Requirement: 3 units from a list of ENGL, ESL, LIT, SPCH courses  
DL Options: ENGL 100, 110, 165; SPCH 180  

Associate in Arts/Science Degree Requirements, continued.  

3. Communication and Analytical Thinking  
Requirement: if not satisfied by E2b, 3 units from a list of 41 courses  
DL Options: BUS 401; CIS 110, 254, 255, 278; DGME 102; ENGL 100, 110, 165; Math 120, 125, 130, 200, 222, 241  

4. Health Science  
Requirement: 2 units of HSCI classes; CA&S 310 may be used for 1 unit  
DL Options: HSCI 100 (2 units); CA&S 310  

5. Physical Education  
Requirement: 2 activity classes (1 – 4 units total)  
DL Options: no current DL options  

6. Additional General Education Requirements  
Requirement: 12 units; either three units in each area or use major to satisfy one area and 12 units from remaining three areas.  

a. Natural Science  
Requirement: at least three units from list of 54 courses  
DL Options: ASTR 100; BIOL 100, 102, 130, 145, 260; CA&S 310; GEOL 100; HORT 310  

b. Social Science  
Requirement: at least three units from list of 75 courses  
DL Options: ANTH 350; BUS 100; DMGE 100; HIST 201, 202; PLSC 200, 210, 310; PSYC 100, 110, 201; 410; SOCI 100, 110  

c. Humanities  
Requirement: at least three units from list of 123 courses  
DL Options: ART 100; CHIN 111, 112, 134; ENGL 110; FILM 100, 110; FREN 115, 116, 117, 118; ITAL 115, 116, 117, 118; JAPN 111; MUS 100, 202, 250; PHIL 100; SPAN 115, 116, 117, 118  

c. Career Exploration and Self-Development  
Requirement: at least three units from list of 75 courses  
DL Options: BUS 201, 315, 316; BUSW 114, 115, 214, 215, 383, 384, 415, 416, 464, 534, 535; CRER 112, 120, 127; CIS 110; DGM 101; LIBR 100, 105, 107, 110; MGMT 100; MULT 102
F. Electives

Requirement: any degree applicable course not used to meet either GE requirements or the first 18 units of major requirements to bring total units to at least 60

DL Options: various
Appendix D

College of San Mateo

Majors Substantially Available through Distance Learning

Majors with 50% or more of required major units available through courses approved for distance learning (DL) mode. Major requirements are from the 2009-10 catalog. Where major has a range of units, the limit that gives the highest DL percentage is used.

\[
\text{DL availability} = 100 \times \left( \frac{\text{DL Units}}{\text{Required Units}} \right)
\]

Majors substantially available through DL: 20 (of 76 majors in 2009-10 catalog)

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Appendix E
College of San Mateo
California State University General Education Pattern (CSU-GE)
Availability through Distance Learning

A student may complete 93% of CSU-GE pattern through the distance mode.

Note: A DL course that fulfills the “oral communication” requirement is not available. The science lab course, BIOL 260, *Introductory Physiology*, is a hybrid course, requiring campus attendance for the lab sessions. In addition, the prerequisite to BIOL 260, is BIOL 250, *Anatomy*, which is not currently offered in a distance mode.

Area A – Communication Skills and Critical Thinking
(One course from each group)
A1, Oral Communication: not available through DL
A2, Written Communication: ENGL 100
A3, Critical Thinking: ENGL 110, 165

Area B – Natural Science and Mathematics
(One course from each area)
B1, Physical Science: ASTR 100, GEOL 100
B2, Life Science: BIOL 100, 102, 130, 145, 260
B3, Lab course (one of B1, B2): BIOL 260 (hybrid course with on-campus lab)
B4, Math: 125, 200, 222, 241, 242

Area C – Arts, Literature, Philosophy & Languages
(Three courses with at least one from each group)
C1, Arts: Art 100, Film 100, 110; MUS 100, 202, 250
C2, Humanities: CHIN 111, 112; FREN 115, 116, 117, Phil 100

Area D – Social, Political, & Economic Institutions
(Nine units with courses in at least two disciplines)
ANTH 350; HIST 201, 202; PLSC 200, 210, 310; PSYC 100, 110, 201, 410; SOCI 100, 110

Additional graduation requirement (one course from each group):
Group 1, U.S. History: HIST 201, 202
Group 2, US Constitution: PLSC 200, 210
Group 3, CA State and Local Government: PSLC 200, 310
Note: PLSC 200 satisfies both group 2 and group 3.

Area E – Lifelong Understanding & Self Development
(Three units)
CA&S 310; CRER 120; HSCI 100; PSYC 100, 110; SOCI 110
Appendix F
College of San Mateo
Intersegmental General Education Transfer Curriculum (IGETC)
Availability through Distance Learning

For students who intend to transfer to UC using IGETC: the percentages of courses available in the distance mode are as follows:

- 100% for students who satisfy Area 6, “Language other than English,” in high school
- 91% for students who take a 3 unit language class to satisfy Area 6, “Language other than English”
- 86% for students who take a 5 unit language class to satisfy Area 6, “Language other than English”

It is also important to note that there is only one DL class available to satisfy the lab requirement and that class is a hybrid that is not “entry level”.

For students who intend to transfer to a CSU using IGETC: 91% of courses are available in a distance mode.

However, it is also important to note that no DL class meets the “oral communication” requirement and that the course that meets the Lab requirement is a hybrid course.

Area 1 – English Communication
(One course from each group; UC does not require group C)

Group A: ENGL 100
Group B: ENGL 110, 165
Group C: not available through DL

Area 2 – Mathematics Concepts & Quantitative Reasoning
(One course)
Math 125, 200, 222, 241, 242

Area 3 – Arts & Humanities
(Three courses with at least one from each group)
Group A, Arts: Film 100; MUS 100, 202, 250
Group B, Humanities: Phil 100

Area 4 – Social & Behavioral Sciences
(Three courses selected from at least two disciplines)
HIST 201, 202; PLSC 200, 210; PSYC 100, 110, 201, 410; SOCI 100, 110
Area 5 – Physical & Biological Sciences
(One from each group; at least one must be a lab course)
   Group A, Physical Science:  ASTR 100, GEOL 100
   Group B, Biological Science:  BIOL 100, 102, 145, 260
   Note: BIOL 260 is the only lab course; it is a hybrid course with on-campus lab

Area 6 – Language Other than English (UC only)
Not available through DL
Appendix G

TRENDS

CSM DISTANCE EDUCATION ENROLLMENTS, COURSES, AND FACULTY
2004/05 – 2008/09

The following table presents CSM Distance Education enrollments and course offerings for 5 academic years (Fall + Spring) 2004/05 – 2008/09. These data reveal the following trends:

**Enrollments**
- Overall, there were a total of 11,163 course enrollments in Distance Education courses between 2004/05 – 2008/09.
- Total Distance Education enrollments increased 55.5% (+984) during this period of time. However, online course enrollments increased 187.1% while telecourse enrollments decreased -8.8%.
- In 2004/05, telecourse enrollments accounted for 67.2% of CSM’s total Distance Education course enrollments. In contrast, telecourse enrollments accounted for only 39.4% of all Distance Education enrollments in 2008/09.
- In 2008/09, online courses averaged enrollments of 19 students per course; telecourses averaged 21 students per course. In contrast, in 2004/05, online courses average enrollments of 13 students per course; telecourses averaged 17 students per course.
- The average number of students enrolled in traditional course at CSM is as follows:
  - Fall 2004: 21.4 students per course
  - Fall 2008: 20.8 students per course
- In Fall 2004, Distance Education courses accounted for 3.3% of all CSM course enrollments. By comparison, in Fall 2008, Distance Education course enrollments accounted for 5.7% of all CSM course enrollments. During this time, Distance Education enrollments increased 66.7% (+523).

**Course Offerings**
- Overall, there were a total of 686 Distance Education courses (i.e., unique CRN’s, such as PSYC 100 AA) offered between 2004/05 – 2008/09. This figure represents a total of 660 courses (i.e., unique course offerings, such as PSYC 100).
  - All numbers below based upon 686 Distance Education unique CRN’s.
- Total Distance Education course offerings increased 21.6% (+141) during this period of time. However, online course offerings increased 21.6% while telecourse enrollments decreased -28.2%
- In 2004/05, telecourse course offerings accounted for 61.2% of CSM’s total Distance Education course offerings. In contrast, telecourse course offerings accounted for only 36.2% of all Distance Education course offerings in 2008/09.
• In Fall 2004, Distance Education courses (i.e., unique CRN's) represented 4.9% of all CSM courses. In Fall 2008, Distance Education courses accounted for 6.8% of all CSM courses.

**Distance Education Faculty**
• Between 2004/05 – 2008/09, a total of 97 unique faculty taught the 686 Distance Education courses offered. 54 faculty taught the 368 online courses offered; 42 faculty taught the 318 telecourses offered.
• Of these 97 faculty teaching all Distance Education courses, 41.2% were full-time. However, 57.4% of faculty teaching online courses were full-time faculty compared to 21.4% of telecourse faculty.
  o In comparison, the full-time/part-time proportion of CSM faculty teaching traditional coursework is as follows:
    ▪ Fall 2004: 33.8% full-time/66.2% part-time
    ▪ Fall 2008: 29.3% full-time/70.7% part-time
## College of San Mateo
### Appendix H
### Distance Education Enrollment History
### Telecourse Enrollments, Fall 2004 – Spring 2009
### (Fall and Spring Semesters Only)

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Appendices/ Page 20
### College of San Mateo

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### Appendix I

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<td>x</td>
<td>F</td>
<td>2009</td>
<td></td>
</tr>
<tr>
<td>SPCH</td>
<td>180</td>
<td>3</td>
<td>x</td>
<td>F</td>
<td>2006</td>
<td></td>
</tr>
</tbody>
</table>

Total: 123 courses
Appendix J

College of San Mateo

Mission Statement

College of San Mateo, the first community college in San Mateo County, is an open-access, student-focused, teaching and learning institution which serves the diverse educational, economic, social and cultural needs of its students and the community. By offering comprehensive, quality programs and services and by measuring student learning, College of San Mateo educates students to participate successfully in a changing world.

CSM Institutional Priorities 2008-2011
(September 2009)

Priority 1: Student Success

Priority 2: Academic Excellence

Priority 3: Relevant, High-Quality Programs and Services

Priority 4: Integrated Planning, Fiscal Stability, and the Efficient Use of Resources

Priority 5: Institutional Dialog
Priority 1: Improve Student Success

Objectives:

- Improve the academic success of all students (includes course-completion, retention, and persistence)
- Improve degree and certificate completion rates
- Improve progression beyond basic skills
- Promote student engagement, including the development and implementation of a comprehensive first-year student experience
- Increase student participation in academic support services and improve such services

Rationale: Why is Student Success a Priority?

Student learning and student success are at the heart of the College’s mission. As documented in the Educational Master Plan, 2008, CSM’s student population has changed in dramatically fashion over the last 25 years. In addition, there are clear gaps in student success among various ethnic and age groups. Although the College has embarked on many worthwhile stand-alone programs to enhance student success, the College has failed to develop a comprehensive, coherent strategy to improve student success rates for all students.

Relationship to Key Planning Efforts:

<table>
<thead>
<tr>
<th>College of San Mateo’s Educational Master Plan, 2008</th>
<th>SMCCCD Strategic Plan, 2008-2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collegewide Recommendations: pp. 17-25</td>
<td>Recommendations:</td>
</tr>
<tr>
<td>Instructional Action Steps: pp. 124-129</td>
<td>1.2 b, 2.2.a, 2.4.b (from abridged version)</td>
</tr>
<tr>
<td>Student Services Action Steps: pp. 98-99</td>
<td></td>
</tr>
</tbody>
</table>
Priority 2: Promote Academic Excellence

Objectives:

- Improve transfer rates, including among at-risk students
- Improve readiness for employment
- Increase viability of Honors Program
- Use the SLO assessment cycle to foster academic excellence
- Foster "academic" identity in marketing, recruiting, and outreach efforts
- Improve effectiveness of distance learning program

Rationale: Why is Academic Excellence a Priority?

Since 1922, CSM has helped students set and achieve high goals for educational and career achievement. More than 85 years after its founding, CSM’s serves diverse populations of students who come to CSM with varying levels of academic preparation, along with their high aspirations. While honoring its tradition of academic excellence, CSM must employ a variety of innovative strategies and pedagogies, which it continuously assesses, to help today’s students meet their goals and thrive in a challenging, global community.

Relationship to Key Planning Efforts:

<table>
<thead>
<tr>
<th>College of San Mateo’s Educational Master Plan, 2008</th>
<th>SMCCCD Strategic Plan, 2008-2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collegewide Recommendations: pp. 17-25</td>
<td>Recommendations(from abridged version):</td>
</tr>
<tr>
<td>Instructional Action Steps: pp. 124-129</td>
<td>1.1a, 1.1b, 2.1a, 2.1c, 2.4.c</td>
</tr>
<tr>
<td>Student Services Action Steps: pp. 98-99</td>
<td></td>
</tr>
</tbody>
</table>

Priority 3: Promote Relevant, High-quality Programs and Services

Objectives:

- Build capacity for emerging, high-demand programs, including but not limited to green and allied health programs
- Revamp or eliminate low-enrolled programs (according to PR/PIV processes)
- Adjust program mix (transfer, basic skills, occupational and career, etc.) to align with student needs
- Further diversify delivery modes (distance, off-site, short courses, etc.)
o Integrate multi-cultural experiences into curricular offerings and student support services to help prepare students as contributing citizens in a global society
o Foster academic excellence throughout the curriculum
o Provide opportunities for all College constituencies to develop proficiency in providing customer service
o Increase participation from all College constituencies in activities that improve understanding of our students’ diversity and promote cross-cultural communication skills

Relationship to Key Planning Efforts:

<table>
<thead>
<tr>
<th>College of San Mateo’s Educational Master Plan, 2008</th>
<th>SMCCCD Strategic Plan, 2008-2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collegewide Recommendations: pp. 17-25</td>
<td>Recommendations(from abridged version):</td>
</tr>
<tr>
<td>Instructional Action Steps: pp. 124-129</td>
<td>1.2b, 2.3a, 2.3b, 3.1a, 3.1b, 3.1c, 3.1e, 3.2a, 4.5a, 4.5b, 4.5c</td>
</tr>
<tr>
<td>Student Services Action Steps: pp. 98-99</td>
<td></td>
</tr>
</tbody>
</table>

Rationale: Why are Relevant, High-Quality Programs and Services a Priority?

CSM operates in a highly competitive environment in which recent high school graduates and other county residents are able to choose higher education institutions other than CSM. To ensure stable enrollment, marketing efforts need to be strategic and targeted, programs and services must be relevant for a diverse community, and scheduling and modes of delivery need to be appropriate for today’s environment.

To offer the highest quality in its programs and to attract students, CSM must engage in a continuous process of reflection, evaluation, change, and enhancement of its programs and services. Program review, assessment of SLO’s, and a variety of institutional-level data analyses allow CSM to evaluate its success and engage in continuous quality improvement.

**Priority 4: Promote Integrated Planning, Fiscal Stability, and the Efficient Use of Resources**

Objectives:

o Continue to implement and assess the integrated planning model
o Continue to provide training in the use of the integrated planning model and evidence-based decision making
o Support decision making in institutional planning that is informed by evidence, research, and the use of outcome measures
o Maintain FTES targets as set by Budget Planning Committee
Rationale: Why is Integrated Planning, Fiscal Stability, and the Efficient Use of Resources a Priority?

Responsible stewardship of all CSM resources—human, monetary, and physical capital—requires an integrated approach to planning, in which decisions are evidenced-based and planning considers a variety of current and future scenarios. In fact, CSM must plan for a future in an environment in which the only predictable element may be one of scarce and declining resources.

CSM cannot operate at an acceptable level without sufficient funds. Yet funding is influenced by a variety of dynamic, fluctuating elements, including the SMCCCD internal allocation model, local tax revenue, and the State budget. What’s more, the recent recession has a direct impact not only on College revenues but also for the types of jobs and careers for which we prepare students. As a result, CSM cannot afford to cease work on effective enrollment management while finding ways to invest in innovative practices and new programs.

Relationship to Key Planning Efforts:

<table>
<thead>
<tr>
<th>College of San Mateo’s Educational Master Plan, 2008</th>
<th>SMCCCD Strategic Plan, 2008-2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collegewide Recommendations: pp. 17-25</td>
<td></td>
</tr>
<tr>
<td>Instructional Action Steps: pp. 124-129</td>
<td></td>
</tr>
<tr>
<td>Student Services Action Steps: pp. 98-99</td>
<td></td>
</tr>
</tbody>
</table>

Priority 5: Enhance Institutional Dialog

Objectives:

- Increase and diversify faculty, administrator, and staff participation in shared governance activities
- Improve campus-wide communication
- Promote a campus climate in which multi-cultural and diverse perspectives are embraced, civil disagreement respected, and transparency in decision-making is evident
Rationale: Why is Enhancing Institutional Dialog a Priority?

The College will not be able to move forward with integrity unless stakeholders engage in meaningful dialog. As noted in the Educational Master Plan, 2008:

“At the foundation of the College’s institutional planning effort is a philosophy and commitment to institutional dialog. The effectiveness of institutional dialog depends on three factors: 1) the planning system itself, 2) the willingness of every individual to become informed and engaged in departmental, division, and college-wide decisions, and 3) a commitment from the various committee representatives to inform and seek input on issues with their respective constituencies. In the end, the ultimate responsibility for effective dialog lies with each member of the CSM community. No planning process on its own can guarantee institutional dialog.”

Relationship to Key Planning Efforts:

<table>
<thead>
<tr>
<th>College of San Mateo’s Educational Master Plan, 2008</th>
<th>SMCCCD Strategic Plan, 2008-2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collegewide Recommendations: pp. 17-25</td>
<td>Recommendations(from abridged version):</td>
</tr>
<tr>
<td>Instructional Action Steps: pp. 124-129</td>
<td>4.5c, 5.1c, 5.1b,</td>
</tr>
<tr>
<td>Student Services Action Steps: pp. 98-99</td>
<td></td>
</tr>
</tbody>
</table>
Appendix K

College of San Mateo College Index
Aligned with “CSM Institutional Priorities, 2008-2011”

Note: The Office of Planning, Research, and Institutional Effectiveness is currently collecting baseline data and making recommendations for target 2009/10 goals.

<table>
<thead>
<tr>
<th>Institutional Indicators and Outcome Measures</th>
<th>2008/09 Baseline</th>
<th>2009/10 Goal</th>
<th>2009/10 Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Priority # 1: Student Success</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1 Retention Rate</td>
<td></td>
<td>82.7%</td>
<td></td>
</tr>
<tr>
<td>1.2 Term Persistence Rate (Fall-to-Fall)</td>
<td></td>
<td>42.1%</td>
<td></td>
</tr>
<tr>
<td>1.3 Successful Course Completion Rate</td>
<td></td>
<td>68.5%</td>
<td></td>
</tr>
<tr>
<td>1.4 Basic Skills Successful Course Completion Rates</td>
<td></td>
<td>60.8%</td>
<td></td>
</tr>
<tr>
<td>1.5 Progression Beyond Basic Skills Courses</td>
<td></td>
<td>28.7%</td>
<td></td>
</tr>
<tr>
<td>1.6 Student Progress &amp; Achievement Rate</td>
<td></td>
<td>59.5%</td>
<td></td>
</tr>
<tr>
<td>1.7 Numbers of Academic Advising Sessions (duplicated count)</td>
<td></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.8 Percentage of Matriculated Students Advised</td>
<td></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.9 Numbers of Matriculated Students Completing SEPs</td>
<td></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.10 Numbers of Students Completing Orientation</td>
<td></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.11 Financial Aid Recipient Rate</td>
<td></td>
<td>38.4%</td>
<td></td>
</tr>
<tr>
<td>1.12 Total Amount of Financial Aid Awards</td>
<td>$4,988,079</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.13 Numbers of Students Receiving Financial Aid</td>
<td>4310</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.14 Numbers of Students Receiving Scholarships</td>
<td></td>
<td>179</td>
<td></td>
</tr>
<tr>
<td>1.15 Total Amount of Scholarship Funds Awarded</td>
<td>$229,047</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.16 Student Persistence or Transfer (Perkins/Career Technical Education (CTE))</td>
<td></td>
<td>88.8%</td>
<td></td>
</tr>
<tr>
<td><strong>Priority #2: Academic Excellence</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.1 Transfer Rate</td>
<td></td>
<td>19.3%</td>
<td></td>
</tr>
<tr>
<td>2.2 Degrees/Certificates Awarded Rate</td>
<td></td>
<td>27.1%</td>
<td></td>
</tr>
<tr>
<td>2.3 Numbers of Degrees Awarded</td>
<td></td>
<td>370</td>
<td></td>
</tr>
<tr>
<td>2.4 Numbers of Certificates Awarded</td>
<td></td>
<td>414</td>
<td></td>
</tr>
<tr>
<td>2.5 Credential, Degree, or Certificate Rate for Occupational Programs (Perkins/Career Technical Education (CTE))</td>
<td></td>
<td>86.6%</td>
<td></td>
</tr>
<tr>
<td>2.6 Numbers of Transfers to UC’s</td>
<td></td>
<td>144</td>
<td></td>
</tr>
<tr>
<td>2.7 Percentage of Transfers Enrolling in UC’s</td>
<td></td>
<td>25.4%</td>
<td></td>
</tr>
<tr>
<td>2.8 Numbers of Transfers to CSU’s</td>
<td></td>
<td>423</td>
<td></td>
</tr>
<tr>
<td>2.9 Percentage of Transfers Enrolling in CSU’s</td>
<td></td>
<td>74.6%</td>
<td></td>
</tr>
<tr>
<td>2.10 Program &amp; Service Quality: Percentage of Comprehensive Program Reviews Completed</td>
<td></td>
<td>TBD</td>
<td></td>
</tr>
</tbody>
</table>
### Priority #3: Relevant, High-quality Programs and Services

<table>
<thead>
<tr>
<th>Indicator</th>
<th>2008/09 Baseline</th>
<th>2009/10 Goal</th>
<th>2009/10 Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1 Employability: Core Indicator for Technical Skills Attainment (Perkins/CTE)</td>
<td>90.7%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.2 Student Satisfaction and Perception: Overall Ratings</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.3 Student Satisfaction and Perception: Campus Climate</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.4 External Community Satisfaction and Perception: Overall Ratings Chamber of Commerce</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5 External Community Satisfaction and Perception: Overall Ratings Advisory Group Members</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.6 Marketing &amp; Public Relations: Numbers of Marketing and PR Events</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.7 Program &amp; Service Enhancements: Student Services [define measure]</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.8 Program &amp; Service Enhancements: Numbers of New or Modified Courses (undergoing Committee on Instruction action)</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.9 Program &amp; Service Enhancements: Percent of Distance Education Courses Offered</td>
<td>6.9%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.10 Program &amp; Service Enhancements: Percent of Online Courses Offered</td>
<td>4.2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.11 Program &amp; Service Enhancements: Percent of Telecourses Offered</td>
<td>2.6%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Priority #4: Promote integrated Planning, Fiscal Stability, and Efficient Use of Resources

<table>
<thead>
<tr>
<th>Indicator</th>
<th>2008/09 Baseline</th>
<th>2009/10 Goal</th>
<th>2009/10 Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1 Total Budget Amount</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.2 Total Budget: Fund 1</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.3 Total Budget: Fund 3</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.4 Budget Stability: Ratio of Actual Expenditures to Total Budget</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.5 Productivity/Efficiency: Total FTES-All Courses</td>
<td>3,723.07</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.6 Productivity/ Efficiency: FTES- All Distance Ed Courses</td>
<td>163.68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.7 Productivity/ Efficiency: FTES- Online Courses</td>
<td>100.73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.8 Productivity/ Efficiency: FTES- Telecourses Courses</td>
<td>62.94</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.9 Efficiency: Load</td>
<td>521.96</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.10 Efficiency: Fill Rates</td>
<td>62.5%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.11 Total Amount of External Grants</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Priority #5: Promote Institutional Dialog

<table>
<thead>
<tr>
<th>Indicator</th>
<th>2008/09 Baseline</th>
<th>2009/10 Goal</th>
<th>2009/10 Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1 Employee Satisfaction and Perception: Overall Rating</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.2 Employee Satisfaction and Perception: Campus Climate</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.3 Staff Development Opportunities: Percentage of participation by employees</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5.4 Staff Development Opportunities: Percentage of participation in shared governance | TBD |
|---|---|

### Other

<table>
<thead>
<tr>
<th></th>
<th>2008/09 Baseline</th>
<th>2009/10 Goal</th>
<th>2009/10 Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1 Enrollment (unduplicated count)</td>
<td>11,215</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.2 Enrollment: County Penetration Rate (CSM students per 1000 San Mateo County residents)</td>
<td>16.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.3 School Relations: San Mateo County High School Take Rates</td>
<td>10.6%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.4 Campus Safety: Crime Statistics (No. of Reported Occurrences)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix L
Annotation of College of San Mateo's Catalog, 2009-2010:
Distance Learning Options

Note: Distance Learning courses and options are identified in blue with gray shading.

For example:
DL: Actg 100, Accounting Procedures, 3 units

ACCOUNTING
Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities
For students who wish to transfer as a Business Administration major, refer to Business on page 72.

Associate in Arts Degree
Accounting .................. ................................. 60 units

Certificate of Achievement
Accounting .................. ................................. 22 units

Certificates of Specialization
Accounting Assistant ............ ............................. 8.5 units
CPA Exam Preparation:
Financial Accounting and Auditing .... .......................... 14 units
CPA Exam Preparation:
Business Environment and Regulation ........ .......................... 13.5 units
Tax Preparer I .................. ................................. 8.5 units
Tax Preparer II .................. ................................. 15.5 units
Enrolled Agent Exam Preparation ............ ............................ 14.5 units

Recommended high school preparation
Coursework in Mathematics, English, and use of micro-computers, including spreadsheet and word processing applications.

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for Business and Accounting for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Major in Accounting
Complete General Education and other requirements listed for the Associate degree and

Major requirements: minimum 22 semester units
A grade grade of "C" or higher is required for each course applied to the major.
Complete 16 units listed below

ACTG 100 Accounting Procedures .................. ........................ 3 units
ACTG 103 Ten Key Skills .................. ........................ 0.5 unit
ACTG 121 Financial Accounting .................. ........................ 4 units
ACTG 131 Managerial Accounting .................. ........................ 4 units
ACTG 144 QuickBooks Set up and Services .................. ........................ 1.5 units
ACTG 145 QuickBooks Payroll and Merchandising .................. ........................ 1.5 units
BUSW 415 Spreadsheet I .................. ........................ 1.5 units

Plus, select a minimum of 6 units from the following courses:

ACTG 161 Intermediate Accounting I .................. ........................ 4 units
ACTG 162 Intermediate Accounting II .................. ........................ 4 units
ACTG 163 Auditing .................. ........................ 3 units
ACTG 164 Governmental and Nonprofit Accounting .................. ........................ 3 units
ACTG 165 Cost Accounting .................. ........................ 3 units
ACTG 171 Individual Income Taxes .................. ........................ 3 units
ACTG 172 Business Income Taxes .................. ........................ 3 units
ACTG 173 Trust, Estate, Gift Taxes .................. ........................ 1.5 units
ACTG 175 Volunteer Income Tax Assistance .................. ........................ 2 units
ACTG 176 Enrolled Agent Exam Preparation .................. ........................ 3 units
BUS 100 Contemporary American Business .................. ........................ 3 units
BUS 201 Business Law I .................. ........................ 3 units
BUS 295 Computer Systems in Business .................. ........................ 4 units

Accounting
Minimum 22 semester units
Complete major requirements listed under Associate in Arts – Major in Accounting. A grade of “C” or higher is required for each course applied to the certificate.
Accounting Assistant
8.5 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- ACTG 100 Accounting Procedures .......... ..........3 units
- ACTG 103 Ten Key Skill.................. .................0.5 unit
- ACTG 144 QuickBooks: Set Up and Service. ..........1.5 units
- ACTG 145 QuickBooks: Payroll and Merchandising ...1.5 units
- BUSW 415 Spreadsheet I. .........................1.5 units
- CRER 127 Career Choices: Job Search..............0.5 unit

Enrolled Agent Exam Preparation:
Financial Accounting and Auditing
14 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- ACTG 161 Intermediate Accounting I............. ..........4 units
- ACTG 162 Intermediate Accounting II.............. ..........4 units
- ACTG 163 Auditing................................. ..........3 units
- ACTG 164 Governmental and Nonprofit Accounting..........3 units

CPA Exam Preparation: Business
Environment and Regulation
13.5 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- ACTG 165 Cost Accounting............. ..........3 units
- ACTG 171 Individual Income Taxes............. ..........3 units
- ACTG 172 Business Income Taxes............... ..........3 units
- ACTG 173 Trust, Estate, Gift Taxes............... ..........1.5 units
- BUS 201 Business Law I......................... ..........3 units

Tax Preparer I
8.5 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- ACTG 100 Accounting Procedures .......... ..........3 units
- ACTG 103 Ten Key Skill.................................0.5 unit
- ACTG 171 Individual Income Taxes............... ..........3 units
- BUSW 415 Spreadsheet I. .........................1.5 units
- CRER 127 Career Choices: Job Search..........0.5 unit

Tax Preparer II
15.5 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- ACTG 103 Ten Key Skill.................................0.5 unit

Enrolled Agent Exam Preparation:
14.5 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- ACTG 121 Financial Accounting......................... ..........4 units
- ACTG 144 QuickBooks: Set-up and Service Business............0.5 unit
- ACTG 145 QuickBooks: Payroll & Merchandising..... ..........1.5 units
- ACTG 171 Individual Income Taxes............... ..........3 units
- ACTG 172 Business Income Taxes............... ..........3 units
- ACTG 173 Trust, Estate, Gift Taxes............... ..........1.5 units
- BUSW 415 Spreadsheet I. .........................1.5 units
- CRER 127 Career Choices: Job Search..............0.5 unit

CPA Exam Preparation: Business
Environment and Regulation
13.5 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- ACTG 165 Cost Accounting............. ..........3 units
- ACTG 171 Individual Income Taxes............. ..........3 units
- ACTG 172 Business Income Taxes............... ..........3 units
- ACTG 173 Trust, Estate, Gift Taxes............... ..........1.5 units
- BUS 201 Business Law I......................... ..........3 units

Tax Preparer I
8.5 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- ACTG 100 Accounting Procedures .......... ..........3 units
- ACTG 103 Ten Key Skill.................................0.5 unit
- ACTG 171 Individual Income Taxes............... ..........3 units
- BUSW 415 Spreadsheet I. .........................1.5 units
- CRER 127 Career Choices: Job Search..........0.5 unit

Understanding the college’s educational plan (SEP) and academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

ASSOCIATION OF JUSTICE
Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

Certificate of Achievement
Administration of Justice .......... ..........27 units
Regular Basic Course Standard Format ..........22 units

POST (California Commission on Peace Officer Standards and Training) Certification
University Transfer Program

Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. Transfer majors may be listed as Administration of Justice, Criminal Justice, Criminology, Law and Society, or other listings. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Administration of Justice**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 27 semester units**

A grade of "C" or higher is required for each course applied to the major.

- ADMJ 100 Introduction to Criminal Justice...... ..........3 units
- ADMJ 102 Principles and Procedures of the Justice System ..... ..........3 units
- ADMJ 104 Introduction to Criminal Law..............3 units
- ADMJ 106 Legal Aspects of Evidence............... ...........
- ADMJ 108 Community Relations/Multi-Cultural Policy Issues...... ..........3 units
- ADMJ 710 Police Report Writing.............. ..........3 units

**Plus 9 units selected from one of the six groups listed below.**

All 9 units must be within the same group.

**Group 1:** ADMJ 120, 153, 185, SOSC 301, 302
**Group 2:** ACTG 100, 121, ECON 100, 102, ECON 123 OR MATH 200
**Group 3:** PSYC 225, SOCI 105, 141, 200, PSYC 300 OR SOCI 300
**Group 4:** ETHN 150, 151, ANTH 105, 110, 120, GEOG 110
**Group 5:** SPCH 120, 140, 150
**Group 6:** CIS 479, 488, 489, 490, 491

**Administration of Justice**

**27 semester units**

A grade of “C” or higher is required for each course applied to the certificate.

Complete major requirements listed under Associate in Science:

Major in Administration of Justice Option 1.

**Regular Basic Course Standard Format**

**22 semester units**

A grade of “C” or higher is required.

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ADMJ 145 Basic Police Academy...... ............... ..........22 units

This 880 hour course is certified by the California Commission on Peace Officers Standards and Training to meet the statutory basic training requirements.

**POST (California Commission on Peace Officers Standards and Training) Certification**

These courses comply with training regulations set forth by POST. Upon successful completion of each of the following courses, the student will receive a certificate of completion.

**PC 832 Training Courses**

- ADMJ 771 PC 832: Arrest and Control Training...............3 units
- ADMJ 775 PC 832: Firearms Training.............................0.5 unit

**Regular Basic Course Modular Format**

- ADMJ 780 Regular Basic Course Module III.................9.5 units
- ADMJ 781 Regular Basic Course Module II......................13 units

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**ALCOHOL AND OTHER DRUG STUDIES**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**

**60–70 transferable units**

California State University
University of California
Independent Colleges and Universities

**Associate in Arts Degree**

Alcohol and Other Drug Studies......... ..............60 units

**Certificate of Achievement**

Alcohol and Other Drug Studies......... ..............36 units

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**University Transfer Program**

Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. Related transfer majors may be listed under several different areas such as, but not limited to, Health, Sociology, and Psychology. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can
assist you to gather this information.

**Major in Alcohol and Other Drug Studies**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 36 semester units**

A grade of “C” or higher is required for each course applied to the major.

- SOSC 301 Intro to Alcohol and Other Drug Studies .......... 3 units
- SOSC 302 Pharmacology/Physiological Effects of Alcohol & Other Drug Abuse ................. 3 units
- SOSC 304 Intervention, Treatment, Recovery... ............. 3 units
- SOSC 307 Counseling the Family of the Addicted Person .......... 3 units
- SOSC 308 Group AOD Counseling Process................. 3 units
- SOSC 314 Individual AOD Counseling Process ............. 3 units
- SOSC 315 Field Studies and Seminar I ..................... 3 units
- SOSC 316 Field Studies and Seminar II .................... 3 units
- SOSC 319 Co-occurring Substance Abuse and Mental Disorders ........ 3 units

Plus 6 units selected from the following courses:

- **PSYC 100 General Psychology** .................. 3 units
- **PSYC 410 Abnormal Psychology**................. 3 units
- **SOCI 100 Introduction to Sociology** ............. 3 units

Plus 3 units selected from the following courses:

- SOSC 310 Special Population Groups in Alcohol and Other Drug Studies .......... 3 units
- SOSC 318 Domestic Violence and AOD Issues .......... 3 units
- SOSC 321 Adolescent Alcohol & Other Drug Prevention, Treatment, Recovery... ........ 3 units

**Alcohol and Other Drug Studies**

**36 semester units**

Complete major requirements listed under Associate in Arts:

Major in Alcohol and Other Drugs Studies. A grade of “C” or higher is required for each course applied to the certificate.

This certificate program conforms to the Proposed Guidelines for Alcohol and Other Drug Studies Programs within Higher Education prepared for the California State Department of Alcohol and Drug Programs and meets the accreditation standards set forth by the California Association for Alcohol/Drug Educators (CAADE).

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**ANTHROPOLOGY**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**

**60–70 transferable units**

California State University
University of California
Independent Colleges and Universities

**University Transfer Program**

Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for the California State University and the University of California systems. Transfer majors may be listed as Anthropology or other listings. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

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**ARCHITECTURE**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**

**60–70 transferable units**

California State University
University of California
Independent Colleges and Universities

Associate in Science Degree
Architecture........ 60 units

**Recommended high school preparation:**

Coursework in Art, Mathematics (four years), Mechanical Drawing, English

**University Transfer Program**

Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for Architecture, Architectural Engineering, or Landscape, City, and Regional Planning for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.
**Major in Architecture**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 27 semester units**

A grade of "C" or higher is required for each course applied to the major.

ARCH 100 Survey of Contemporary Architecture .......... 3 units
ARCH 120 Architecture and Design Drawing 1: Drawing and Visual Thinking .......... 2 units
ARCH 140 Architecture and Design Drawing 2 .......... 2 units
ARCH 155 Architecture, Technology, and Building 1: Construction Materials and Methods .......... 2 units
ARCH 165 Architecture, Technology, and Building 2: Construction Processes and Systems .......... 2 units
ARCH 210 Design I: Intro to Architecture, Environmental and Community Design and the Design Process .......... 4 units
ARCH 220 Design II: Architecture: Design, Form & the Built Environment .......... 4 units
ARCH 230 Design III: Visioning and Building Architecture .......... 4 units
ARCH 240 Design IV: Visioning Place .......... 4 units

**ART**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP)/University Transfer Program 60–70 transferable units*

California State University
University of California
Independent Colleges and Universities

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**Associate in Arts Degree**

Art: Commercial .......... 60 units
Art: Fine Arts Option 1: Drawing .......... 60 units
Art: Fine Arts Option 2: General Studio Art .......... 60 units
Art: Fine Arts Option 3: Painting .......... 60 units
Art Fine Arts Option 4: Printmaking .......... 60 units
Art: Photography .......... 60 units

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**University Transfer Program**

Use Assist (www.assist.org) to identify lower division major preparation for Art and Art History for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Art: Commercial**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 24 semester units**

A grade of "C" or higher is required for each course applied to the major.

ART 201 Drawing and Composition I .......... 3 units
ART 202 Drawing and Composition II .......... 3 units
ART 206 Figure Drawing and Portraiture .......... 3 units
ART 207 Life Drawing .......... 3 units
ART 214 Color .......... 3 units
ART 301 Design .......... 3 units
GRA 150 Adobe Illustrator for Print & Web Design I .......... 3 units
GRA 160 Adobe Photoshop for Print & Web Design I .......... 3 units

**Major in Fine Arts**

**Option 1: Drawing**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 33 semester units**

A grade of "C" or higher is required for each course applied to the major.

ART 101 Art & Architecture from the Ancient World to Medieval Times .......... OR
ART 102 Art & Architecture of Renaissance and Baroque Europe .......... OR
ART 124 Old Masters' Aesthetics and Techniques .......... 3 units
ART 103 Art of Europe and America from the Rococo to the Present .......... OR
ART 104 Art of the 20th Century .......... 3 units
ART 201 Drawing and Composition I .......... 3 units
ART 202 Drawing and Composition II .......... 3 units
ART 206 Figure Drawing and Portraiture .......... 3 units
ART 207 Life Drawing .......... 3 units
ART 214 Color .......... 3 units
ART 223 Oil Painting I .......... 3 units
ART 301 Design .......... 3 units

Plus, repeat the following courses:
ART 206 Figure Drawing and Portraiture .......... 3 units
ART 207 Life Drawing .......... 3 units

**Major in Fine Arts Option 2:**

**General Studio Art**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 30 semester units**

A grade of "C" or higher is required for each course applied
to the major.

ART 101  Art & Architecture from the Ancient World to Medieval Times..............OR
ART 102  Art & Architecture of Renaissance and Baroque Europe.........................OR
ART 124 Old Masters' Aesthetics and Techniques..............3 units
ART 103  Art of Europe and America from the Rococo to the Present....................OR
ART 104  Art of the 20th Century ..............3 units
ART 201 Drawing and Composition I ..............3 units
ART 202 Drawing and Composition II ..............3 units
ART 206 Figure Drawing and Portraiture..............3 units
ART 207 Life Drawing ..............3 units
ART 214 Color.............................3 units
ART 223 Oil Painting I ..............3 units
ART 301 Design.............................3 units
ART 405 Sculpture I .....................3 units

Major in Fine Arts Option 3: Painting

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 33 semester units
A grade of "C" or higher is required for each course applied to the major.

ART 101  Art & Architecture from the Ancient World to Medieval Times..............OR
ART 102  Art & Architecture of Renaissance and Baroque Europe.........................OR
ART 124 Old Masters' Aesthetics and Techniques..............3 units
ART 103  Art of Europe and America from the Rococo to the Present....................OR
ART 104  Art of the 20th Century ..............3 units
ART 201 Drawing and Composition I ..............3 units
ART 202 Drawing and Composition II ..............3 units
ART 206 Figure Drawing and Portraiture..............3 units
ART 207 Life Drawing ..............3 units
ART 214 Color.............................3 units
ART 223 Oil Painting I ..............3 units
ART 301 Design.............................3 units
ART 405 Sculpture I .....................3 units

Major in Fine Arts Option 4: Printmaking

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 24 semester units
A grade of "C" or higher is required for each course applied to the major.

ART 101  Art & Architecture from the Ancient World

Major in Art: Photography

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 21 semester units
A grade of "C" or higher is required for each course applied to the major.

ART 350 Visual Perception ..............3 units
ART 351 Beginning Black and White Photography ..............3 units
ART 352 Intermediate Black and White Photography ..............3 units
ART 354 Color Photography I ..............3 units
ART 360 Experimental Photography ..............3 units
ART 381 Beginning Digital Photography ..............3 units
ART 353 Advanced Black and White Photography ..............OR
ART 355 Color Photography II ..............3 units

Art History University Transfer Program

Most Career opportunities in Art History require a B.A. or an advanced degree. Students can fulfill lower division major and general education courses at the community college to facilitate transfer to a university to major in Art History. Use Project Assist (www.assist.org) to identify lower division major preparation required for transfer. Typically Art History major requirements include such courses as ART 101, 102, 103, 104, 201, 301, History courses, and courses in Foreign Languages.
AMERICAN SIGN LANGUAGE

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program

California State University
University of California
Independent Colleges and Universities

Certificate of Specialization
American Sign Language ................................. 12 units

University Transfer Program

Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

American Sign Language

12 semester units

A grade of "C" or higher is required for each course applied to the certificate.

ASL 111 Elementary American Sign Language
...3 units
ASL 112 Elementary American Sign Language II
...3 units
ASL 121 Advanced Elementary American Sign Language I
................. 3 units
ASL 122 Advanced Elementary American Sign Language II
................. 3 units

In special circumstances, the Dean of Language Arts may approve the limited use of other courses in the same language (such as those numbered 680 or taken at Skyline or Cañada Colleges). In rare circumstances, the Dean may approve using a course in another discipline if its content is closely related to the language studied.

BROADCAST AND ELECTRONIC MEDIA

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program

60–70 transferable units

California State University
University of California
Independent Colleges and Universities

American Sign Language

12 semester units

A grade of "C" or higher is required for each course applied to the certificate.

BCST 110 Media in Society ................................. 3 units
BCST 210 Television Studio Techniques (replaces 231) ... 3 units
BCST 310 Studio Lighting Techniques ........................ 1.5 units
BCST 312 Field lighting Techniques .......................... 1.5 units
BCST 320 Digital Television Field

Associate in Arts Degree

Broadcast and Electronic Media

Option 1: Television Production .......................... 60 units
Option 2: Broadcast Audio.................................... 60 units
Option 3: Television Producing ............................ 60 units

Certificate of Achievement

Broadcast and Electronic Media

Option 1: Television Production .......................... 33 units
Option 2: Broadcast Audio.................................... 32.5 units
Option 3: Television Producing ............................ 30 units

Certificates of Specialization

Lighting ....................................................... 15 units
On-Air ......................................................... 16 units
Editing I ....................................................... 15 units

University Transfer Program

Use Assist (www.assist.org) to identify lower division major preparation for Broadcast and Electronic Media for the California State University and the University of California systems. Research related majors in Mass Communication, Journalism, Radio and Television, and Film and Television. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Major in Broadcast and Electronic Media

Option 1: Television Production

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 33 semester units

A grade of "C" or higher is required for each course applied to the major.

BCST 110 Media in Society ................................. 3 units
BCST 210 Television Studio Techniques (replaces 231) ... 3 units
BCST 310 Studio Lighting Techniques ........................ 1.5 units
BCST 312 Field lighting Techniques .......................... 1.5 units
BCST 320 Digital Television Field
Production (replaces 241) .................................. 3 units
BCST 410 Advanced Production Techniques (replaces 233) .................................. 3 units
MULT 184 Digital Video (replaces 180/181) .................................. 3 units
MULT 187 Final Cut Pro (replaces 182/183) .................................. 3 units
MULT 192 Digital Audio (replaces 190/191) .................................. 3 units
MULT 282 After Effects (replaces 280/281) .................................. 3 units
MULT 292 DVD Studio Pro (replaces 290/291) .................................. 3 units
MULT 387 Digital Video Workflow (replaces 385/386) .................................. 3 units

Strongly Recommended: BCST 450 (replaces 244)

Broadcast and Electronic Media
Option 1: Television Production
33 semester units
Complete major requirements listed under Associate in Arts: Major in Broadcast and Electronic Media Option 1: Television Production. A grade of “C” or higher is required for each course applied to the certificate.

Major in Broadcast and Electronic Media
Option 2: Broadcast Audio
Complete General Education and other requirements listed for the Associate degree and

Major requirements: 32.5 semester units
A grade of “C” or higher is required for each course applied to the major.

BCST 110 Media in Society .................................. 3 units
BCST 210 Television Studio Techniques (replaces 231) .................................. 3 units
BCST 420 Advanced Audio Operations (replaces 132) .................................. 3 units
MULT 184 Digital Video (replaces 180/181) .................................. 3 units
MULT 192 Digital Audio (replaces 190/191) .................................. 3 units
MULT 292 DVD Studio Pro (replaces 290/291) .................................. 3 units
MULT 297 Pro Tools LEI (replaces 295/296) .................................. 3 units
MULT 317 Digital Recording Studio (replaces 315/316) .................................. 3 units
MULT 387 Digital Video Workflow (replaces 385/386) .................................. 3 units
MUS 292 Sound Creation: Sampling and Synthesis .................................. 3 units
MUS 293 Audio for Visual Media .................................. 2.5 units

Strongly Recommended: BCST 450 (replaces 244)

Broadcast and Electronic Media
Option 2: Broadcast Audio
32.5 semester units
Complete major requirements listed under Associate in Arts: Major in Broadcast and Electronic Media Option 2: Broadcast Audio. A grade of “C” or higher is required for each course applied to the certificate.

Major in Broadcast

Broadcast and Electronic Media
Option 3: Television Producing
30 semester units
Complete major requirements listed under Associate in Arts: Major in Broadcast and Electronic Media Option 3: Television Producing. A grade of “C” or higher is required for each course applied to the certificate.

Lighting
15 semester units
A grade of “C” or higher is required for each course applied to the certificate.

BCST 210 Television Studio Techniques (replaces 231) .................................. 3 units
BCST 310 Studio Lighting Techniques .................................. 1.5 units
BCST 312 Field Lighting Techniques .................................. 1.5 units
BCST 320 Digital Television Field Production (replaces 241) .................................. 3 units
MULT 184 Digital Video (replaces 180/181) .................................. 3 units
MULT 192 Digital Audio (replaces 190/191) .................................. 3 units

On-Air
16 semester units
A grade of “C” or higher is required for each course applied to the certificate.

BCST 210 Television Studio Techniques (replaces 231) .................................. 3 units
BCST 220 Broadcast Writing (replaces 194) .................................. 3 units
BCST 230 On-Air Talent (replaces 120) .................................. 3 units
BCST 240 Directing Talent .................................. 1 unit
SPCH 100 Public Speaking .................................. 3 units
SPCH 111 Oral Interpretation I .................................. 3 units
### BUILDING INSPECTION TECHNOLOGY

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

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#### Associate in Science Degree

Building Inspection .......................... 60 units

#### Certificate of Achievement

Building Inspection .......................... 34–35 units

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#### Major in Building Inspection

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 34–35 semester units**

A grade of "C" or higher required for each course applied to the major.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BLDG 700</td>
<td>Introduction to Building Code</td>
<td>3</td>
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<tr>
<td>BLDG 710</td>
<td>Non-Structural Provisions of the Uniform Building Code</td>
<td>3</td>
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<tr>
<td>BLDG 720</td>
<td>Electrical Inspection I</td>
<td>3</td>
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<td>BLDG 725</td>
<td>Electrical Inspection II</td>
<td>3</td>
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<td>BLDG 730</td>
<td>Plumbing Inspection</td>
<td>3</td>
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<tr>
<td>BLDG 735</td>
<td>ADA Building Requirements</td>
<td>3</td>
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<td>BLDG 740</td>
<td>Mechanical Code</td>
<td>3</td>
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<td>BLDG 750</td>
<td>Structural Provisions of Uniform Building Code</td>
<td>3</td>
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<td>BLDG 760</td>
<td>Energy Regulations</td>
<td>3</td>
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<tr>
<td>BLDG 775</td>
<td>Introduction to Residential Dwelling Inspection Technology</td>
<td>3</td>
</tr>
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Plus,

ENGL 838/848 or higher................................................. 4–5 units

Suggested electives:

BLDG 790; COOP 641; MGMT 235, 265; PHYS 100

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#### Building Inspection

34–35 semester units

Complete major requirements listed under Associate in Science: Major in Building Inspection. A grade of "C" or higher is required for each course applied to the certificate.

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#### BUSINESS

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**

**60–70 transferable units**

California State University

University of California

Independent Colleges and Universities

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#### Associate in Arts Degree

**Business Administration,**

Option 1 (Non-transfer program) ......................... 60 units

Option 2 (Transfer program) .......................... 60 units

Business: Insurance - Property and Casualty .......... 60 units

Business: Merchandising - Management ............... 60 units

**Business Information Processing**

Option 1: Microcomputer/Office Assistant ............. 60 units

Option 2: Microcomputer/Database and Spreadsheet Functions ........................................ 60 units

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#### Certificate of Achievement

**Business: Insurance - Property and Casualty** .... 32 units

**Business: Merchandising - General** ............... 21 units

**Business: Merchandising - Management** ............ 24–25 units

**Business Information Processing**

Option 1: Microcomputer/Office Assistant ............. 23–24.5 units

Option 2: Microcomputer/Database and Spreadsheet Functions ........................................ 24 units

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#### Certificates of Specialization

**Insurance: Property and Casualty** .................. 12 units

**Office Assistant I** ................................................... 8–9.5
units
Office Assistant II ........................................11 units

Recommended high school preparation:
Coursework in Mathematics, English, Accounting, and use of microcomputers, including spreadsheet and word processing applications.

**Major in Business Administration, Option 1 (Non-transfer)**
Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 24–26 semester units**
A grade of "C" or higher is required for each course applied to the major.

- **ACTG 100 Accounting Procedures** ........................................3 units, OR
- **ACTG 121 Financial Accounting** ........................................4 units
- **BUS 100 Contemporary American Business** .........................................3 units
- **BUS 101 Human Relations I** .................................................................3 units
- **BUS 115 Business Mathematics** .........................................................3 units
- **BUS 201 Business Law I** .................................................................3 units
- **BUS 401 Business Communications** .....................................................3 units
- **BUS 295 Computer Systems in Business** ........................................4 units, OR
- **CIS 110 Introduction to Computer and Information Science** .........................................3 units

Plus, select 3 units from a BUSW series

**Major in Business Administration, Option 2 (Transfer Program)**
Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 20–24 semester units**
A grade of "C" or higher is required for each course applied to the major.

- **ACTG 121 Financial Accounting** ..................................................4 units
- **ECON 100 Principles of Macroeconomics** ...........................................3 units
- **ECON 102 Principles of Microeconomics** ...........................................3 units
- **ECON 123 Business Economic Statistics** ..................................3 units
- **MATH 200 Statistics** .................................................................4 units

Plus, select 6–10 units from the following courses:

- **ACTG 131 Managerial Accounting** ..................................................4 units
- **BUS 100 Contemporary American Business** ........................................3 units
- **BUS 201 Business Law I** .................................................................3 units

BUS 295 Computer Systems in Business ........................................4 units
**MATH 125 Elementary Finite Math** ........................................3 units
**MATH 241 Applied Calculus I** .........................................................5 units
**MATH 251 Calculus with Analytic Geometry I** ....................................5 units

**Major in Business: Insurance - Property and Casualty**
Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 32 semester units**
A grade of "C" or higher is required for each course applied to the major.

- **ACTG 121 Financial Accounting** ..................................................4 units
- **BUS 100 Contemporary American Business** .........................................3 units
- **BUS 201 Business Law I** .................................................................3 units
- **BUS 295 Computer Systems in Business** ........................................4 units
- **BUS 352 Introduction to Insurance** ..................................................1 unit
- **BUS 353 Property and Liability Insurance Principles** ..................................3 units
- **BUS 354 Personal Insurance** .................................................................3 units
- **BUS 355 Commercial Insurance** ..........................................................3 units
- **BUS 356 Code and Ethics** .................................................................1 unit
- **BUS 401 Business Communications** .....................................................3 units
- **COOP 641 Cooperative Work Experience Education** ................................1 unit
- **BUSW 415 Spreadsheet I Using Excel for Windows** ................................1.5 units
- **BUSW 416 Spreadsheet II Using Excel for Windows** ................................1.5 units

**Business: Insurance - Property and Casualty**
32 semester units
Complete major requirements listed under Associate in Arts – Major in Business Insurance – Property and Casualty. A grade of "C" or higher is required for each course applied to the certificate.

**Insurance: Property and Casualty**
12 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- **BUS 352 Introduction to Insurance** ..................................................1 unit
- **BUS 353 Property and Liability Insurance Principles** ..................................3 units
- **BUS 354 Personal Insurance** .................................................................3 units
- **BUS 355 Commercial Insurance** ..........................................................3 units
- **BUS 356 Code and Ethics** .................................................................1 unit
- **COOP 641 Cooperative Work Experience Education** ................................1 unit

**Business: Merchandising - General**

Appendices/Page 45
21 semester units
A grade of “C” or higher is required for each course applied to the certificate.

BUS 100 Contemporary American Business ..................3 units
BUS 101 Human Relations I..................................3 units
BUS 115 Business Mathematics...............................3 units
BUS 180 Marketing.............................................3 units
COOP 641 Cooperative Work Experience Education.........6 units

Plus, select 3 units from any of the Business Management courses.

Major in Business
Merchandising - Management
Complete General Education and other requirements listed for the Associate degree and

Major requirements: 24–25 semester units
A grade of "C" or higher is required for each course applied to the major.

BUS 100 Contemporary American Business ..................3 units
BUS 101 Human Relations I..................................3 units
BUS 115 Business Mathematics...............................3 units
BUS 170 Salesmanship Fundamentals........................3 units
BUS 180 Marketing.............................................3 units
COOP 641 Cooperative Work Experience Education.........6 units
ACTG 100 Accounting Procedures ..........................3 units...OR
ACTG 121 Financial Accounting...............................4 units

Business:
Merchandising - Management
24–25 semester units
Complete major requirements listed under Associate in Arts – Major in Business Merchandising (Management). A grade of “C” or higher is required for each course applied to the certificate.

Major in Business Information Processing Option 1: Microcomputer/Office Assistant
23–24.5 semester units
Complete major requirements listed under Associate in Arts – Major in Business: Business Information Processing Option 1 Microcomputer/Office Assistant. A grade of “C” or higher is required for each course applied to the certificate.

BUS 326 Electronic Filing and Records Management ......1.5 units
BUS 401 Business Communication............................3 units
BUS 105 Introduction to Microcomputers.....................1.5 units
BUSW 114 Windows Fundamentals I..........................1.5 units
BUSW 214 Word Processing I Using
WORD for Windows...........................................1.5 units
BUSW 215 Word Processing II Using
WORD for Windows...........................................1.5 units
BUSW 383 Business Presentations Using
Power Point for Windows......................................1.5 units
BUSW 415 Spreadsheet I Using Excel for Windows.........1.5 units
BUSW 530 Introduction to Internet............................1.5 units
CRER 127 Career Choices: Job Search..........................0.5 unit

Major in Business Information Processing Option 2: Microcomputer/Data Base and Spreadsheet Functions
Complete General Education and other requirements listed for the Associate degree and

Major requirements: 24 semester units
A grade of "C" or higher is required for each course applied to the major.

ACTG 100 Accounting Procedures ..........................3 units
ACTG 144 Quick Books: Set-up and Service Business 1.5 units
ACTG 145 Quick Books: Payroll and Merchandising 1.5 units
BUS 100 Contemporary American Business.................3 units
BUS 115 Business Mathematics...............................3 units
BUS 105 Introduction to Microcomputers.....................1.5 units
BUSW 114 Windows Fundamentals I..........................1.5 units
BUSW 214 Word Processing Using
WORD for Windows...........................................1.5 units
BUSW 415 Spreadsheet I Using Excel for Windows.........1.5 units
BUSW 416 Spreadsheet II Using Excel for Windows.........1.5 units
BUSW 464 Database Management Fundamentals
Using Access for Windows.................................3 units
BUSW 530 Introduction to the Internet.........................1.5 units
Business Information Processing Option 2: Microcomputer/Data Base and Spreadsheet Functions
24 semester units
Complete major requirements listed under Associate in Arts – Major in Business: Business Information Processing Option 2 Microcomputer/Data Base and Spreadsheet Functions. A grade of “C” or higher is required for each course applied to the certificate.

Office Assistant I
8–9.5 semester units
A grade of “C” or higher is required for each course applied to the certificate.
BUS 317 Micro/Keyboarding: Skillbuilding ..........1.5 units
BUS 316 Keyboarding II ...................... 3 units OR
BUSW 114 Windows Fundamentals ..........1.5 units
BUSW 214 Word Processing Using
  WORD for Windows............................. 1.5 units
BUSW 415 Spreadsheet I Using EXCEL for Windows 1.5 units
BUSW 530 Introduction to the Internet ........ 1.5 units
CRER 127 Career Choices: Job Search .......... 0.5 unit

Office Assistant II
11 semester units
A grade of “C” or higher is required for each course applied to the certificate.
BUS 317 Micro/Keyboarding: Skill building ...... 1.5 units
BUSW 114 Windows Fundamentals I .............. 1.5 units
BUSW 214 Word Processing I Using
  WORD for Windows............................. 1.5 units
BUSW 215 Word Processing II Using
  WORD for Windows............................. 1.5 units
BUSW 383 Business Presentations Using
  Power Point for Windows .................... 1.5 units
BUSW 415 Spreadsheet I Using Excel for Windows 1.5 units
BUSW 530 Introduction to Internet................ 1.5 units
CRER 127 Career Choices: Job Search .......... 0.5 unit

Independent Colleges and Universities

Certificates of Specialization
Leadership for Service .................. 6 units
College Peer Advisor ................. 6 units

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for Psychology with a Career Planning emphasis for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Leadership for Service
6 semester units
A grade of “C” or higher is required for each course applied to the certificate.
Select 3 units from the following courses:
SPCH 100 Public Speaking ...................... 3 units
SPCH 120 Interpersonal Communications ........ 3 units
SPCH 140 Small Group Communication .......... 3 units
SPCH 150 Intercultural Communication .......... 3 units

Select 3 units from the following courses:
SOCI 100 Introduction to Sociology .......... 3 units
SOCI 105 Social Problems ...................... 3 units
SOCI 141 Race and Ethnic Relations .......... 3 units
SOCI 200 Urban Sociology .................. 3 units
SOCI 300 Social Psychology ................ 3 units
PSYC 100 General Psychology ................. 3 units
PSYC 300 Social Psychology ................ 3 units

College Peer Advisor
6 semester units
A grade of “C” or higher is required for each course applied to the certificate.
Select 3 units from the following courses:
CRER 120 College and Career Success ........ 3 units
OR
CRER 121 Planning for Student Success .......... 1 unit
AND
CRER 122 Strategies for Achieving Education Success ....1 unit
AND
CRER 123 Career Exploration for Student Success ........ 1 unit

Plus:

CAREER AND LIFE PLANNING
Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).
University Transfer Program
60–70 transferable units
California State University
University of California

Appendices/Page 47
CRER 104  Transfer Essentials and Planning...... ............0.5 unit
CRER 107  Introduction to Choosing a College Major......0.5 unit
CRER 108  Achieving an Associate Degree
and/or Vocational Certificate ............. ............0.5 unit

**CHEMISTRY**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**

60 – 70 transferable units

California State University
University of California
Independent Colleges and Universities

<table>
<thead>
<tr>
<th>Associate in Science Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry ................... ............60 units</td>
</tr>
</tbody>
</table>

**Recommended high school preparation:**

Coursework in Chemistry, Biology, Physics, Mathematics

**University Transfer Program**

Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Chemistry**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 24–25 semester units**

A grade of “C” or higher is required for each course applied to the major.

- CHEM 210  General Chemistry I ................. ............5 units
- CHEM 220  General Chemistry II ................. ............5 units
- CHEM 231  Organic Chemistry I ................. ............5 units
- CHEM 232  Organic Chemistry II ................. ............5 units
- PHYS 210/211  General Physics I / Calculus Supplement... ............5 units. . .OR
- PHYS 250  Physics with Calculus ................. ............4 units

**CHINESE**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**

60–70 transferable units

**Certificates of Specialization**

*Chinese ......................... ............12 units*

- **University Transfer Program**

Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Chinese**

12 semester units

A grade of “C” or higher is required for each course applied to the certificate.

Select 12 units from the following courses:

- **CHIN 111  Elementary Chinese I ................. ............3 units**
- **CHIN 112  Elementary Chinese II ................3 units**
- **CHIN 121  Advanced Elementary Chinese I .............3 units**
- **CHIN 122  Advanced Elementary Chinese II ..........3 units**
- **CHIN 131  Intermediate Chinese I ..................3 units**
- **CHIN 132  Intermediate Chinese II ..................3 units**
- **CHIN 134  Basic Chinese Writing Skills Online ........3 units**
- **CHIN 140  Advanced Intermediate Chinese ..........3 units**
- **CHIN 201  Chinese Character Writing for Beginners ..........1 unit**
- **CHIN 211  Colloquial Mandarin Chinese I, Elementary ..........3 units**
- **CHIN 212  Colloquial Mandarin Chinese II, Elementary ..........3 units**

In special circumstances, the Dean of Language Arts may approve the limited use of other courses in the same language (such as those numbered 680 or taken at Skyline or Cañada Colleges). In rare circumstances, the Dean may approve using a course in another discipline if its content is closely related to the language studied.

**COMPUTER AND INFORMATION SCIENCE**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*
University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Science Degree
Computer and Information Science........60 units
Computer and Network Forensics........60 units
Computer Science Applications and Development ........60 units
Computer Support Specialist
Option 1 Network Support ........60 units
Computer Support Specialist
Option 2 PC Hardware and System Support........60 units

Certificate of Achievement
Computer and Network Forensics........31.5 units
Computer Science Applications and Development ........30 units
Computer Support Specialist
Option 1 Network Support ........28.5 units
Computer Support Specialist
Option 2 PC Hardware and System Support........31 units

Certificates of Specialization
C++ Programming ................8 units
CIS Network Security Specialist ..........7.5 units
Computer Forensics ................13.5 units
Internet Programming ........16 units
Java Programming ........8 units

Recommended high school preparation:

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for Computer and Information Science for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Major in Computer and Information Science
Complete General Education and other requirements listed for the Associate degree and
Major requirements: 31 semester units
A grade of "C" or higher is required for each course applied to the major.
CIS 255 (CS1) Programming Methods: Java ...........OR
CIS 278 (CS2) Programming Methods: C++ ........4 units
CIS 256 (CS2) Data Structures: Java .................

OR
CIS 279 (CS2) Data Structures: C++ ........4 units
MATH 251 Calculus with Analytic Geometry I ........5 units
MATH 252 Calculus with Analytic Geometry II 5 units
ENGL 100 Composition and Reading ........3 units
Plus, select 4 or more units from CIS courses numbered 110 or higher
Plus, select 6 or more units from MATH 253, 268, 270, 275; PHYS 250.

Major in Computer and Network Forensics
Complete General Education and other requirements listed for the Associate degree and
Major requirements: 31.5 semester units
A grade of "C" or higher is required for each course applied to the major.
CIS 151 Networks and Digital Communications ........3 units
CIS 479 Network Security Fundamentals ........3 units
CIS 488 Firewalls and Network Security ........1.5 units
CIS 489 Computer Forensics ........3 units
CIS 490 Computer Forensics: Network Analysis and Defense ........3 units
CIS 491 Computer Forensics: Search and Seizure ........3 units
ADMJ 102 Principles and Procedures of the Justice System ........3 units
ADMJ 104 Introduction to Criminal Law ........3 units
ADMJ 106 Legal Aspects of Evidence ........3 units
ADMJ 120 Criminal Investigation ........3 units
ELEC 215 Introduction to PC Hardware ........3 units

Computer and Network Forensics
31.5 semester units
Complete major requirements listed under Associate in Science – Major in Computer and Network Forensics. A grade of “C” or higher is required for each course applied to the certificate.

Major in Computer Science Applications and Development

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 30 semester units**

A grade of "C" or higher is required for each course applied to the major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 110</td>
<td>Introduction to Computer and Information Science</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 151</td>
<td>Networks and Digital Communication</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 254</td>
<td>Introduction to Object-Oriented Program Design</td>
<td>4 units</td>
</tr>
<tr>
<td>CIS 255</td>
<td>(CS1) Programming Methods: Java</td>
<td>3 units (OR)</td>
</tr>
<tr>
<td>CIS 278</td>
<td>(CS2) Programming Methods: C++</td>
<td>4 units</td>
</tr>
<tr>
<td>CIS 279</td>
<td>(CS2) Data Structures: C++</td>
<td>4 units</td>
</tr>
<tr>
<td>CIS 256</td>
<td>(CS2) Data Structures: Java</td>
<td>4 units (OR)</td>
</tr>
<tr>
<td>CIS 257</td>
<td>(CS2) Data Structures: Java</td>
<td>4 units (OR)</td>
</tr>
<tr>
<td>CIS 312</td>
<td>UNIX Operating Systems I</td>
<td>1 unit</td>
</tr>
<tr>
<td>CIS 313</td>
<td>UNIX Operating Systems II</td>
<td>1 unit</td>
</tr>
<tr>
<td>CIS 125</td>
<td>Visual Basic I</td>
<td>3 units (OR)</td>
</tr>
<tr>
<td>CIS 254</td>
<td>Introduction to Object-Oriented Program Design</td>
<td>4 units</td>
</tr>
</tbody>
</table>

Plus, select 8 units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 278</td>
<td>(CS2) Programming Methods: C++</td>
<td>4 units (if not used above)</td>
</tr>
<tr>
<td>CIS 255</td>
<td>(CS1) Programming Methods: Java</td>
<td>4 units (if not used above)</td>
</tr>
<tr>
<td>CIS 256</td>
<td>(CS2) Data Structures: Java</td>
<td>4 units (if not used above)</td>
</tr>
<tr>
<td>CIS 279</td>
<td>(CS2) Data Structures: C++</td>
<td>4 units (if not used above)</td>
</tr>
<tr>
<td>CIS 312</td>
<td>UNIX Operating Systems I</td>
<td>1 unit</td>
</tr>
<tr>
<td>CIS 313</td>
<td>UNIX Operating Systems II</td>
<td>1 unit</td>
</tr>
<tr>
<td>CIS 362</td>
<td>Enterprise Database Management</td>
<td>4 units</td>
</tr>
<tr>
<td>CIS 391-398</td>
<td>Visual Studio.NET</td>
<td>2 units each</td>
</tr>
</tbody>
</table>

Plus, select 4 units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 377</td>
<td>Internet Programming: JavaScript/XML</td>
</tr>
<tr>
<td>CIS 379</td>
<td>Internet Programming: XML</td>
</tr>
<tr>
<td>CIS 380</td>
<td>Internet Programming: PHP</td>
</tr>
<tr>
<td>CIS 390</td>
<td>Internet Programming: Perl</td>
</tr>
</tbody>
</table>

**Computer Science Applications and Development**

30 semester units

Complete major requirements listed under Associate in Science – Major in Computer Science Applications and Development. A grade of “C” or higher is required for each course applied to the certificate.

**Major in Computer Support Specialist Option I: Network Support**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 28.5 semester units**

A grade of "C" or higher is required for each course applied to the major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 110</td>
<td>Introduction to Computer and Information Science</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 151</td>
<td>Networks and Digital Communication</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 125</td>
<td>Visual Basic I</td>
<td>3 units (OR)</td>
</tr>
<tr>
<td>CIS 254</td>
<td>Introduction to Object-Oriented Program Design</td>
<td>4 units</td>
</tr>
<tr>
<td>ELEC 110</td>
<td>Introduction to Fundamentals of Electronics</td>
<td>3 units</td>
</tr>
<tr>
<td>ELEC 215</td>
<td>Introduction to PC Hardware</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 312</td>
<td>UNIX Operating Systems I</td>
<td>1 unit</td>
</tr>
<tr>
<td>CIS 313</td>
<td>UNIX Operating Systems II</td>
<td>1 unit</td>
</tr>
<tr>
<td>BUSW 114</td>
<td>Windows Fundamentals</td>
<td>1.5 units</td>
</tr>
</tbody>
</table>

Plus, select 9 units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 479</td>
<td>Network Security Fundamentals</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 489</td>
<td>Computer Forensics</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 490</td>
<td>Computer Forensics: Network Analysis and Defense</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 491</td>
<td>Computer Forensics: Search and Seizure</td>
<td>3 units</td>
</tr>
</tbody>
</table>

**Computer Support Specialist Option I: Network Support**

27.5–28.5 semester units

Complete major requirements listed under Associate in Science – Major in Computer Support Specialist Option I Network Support. A grade of “C” or higher is required for each course applied to the certificate.

**Major in Computer Support Specialist Option 2: PC Hardware and System Support**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 31 semester units**

A grade of "C" or higher is required for each course applied to the major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 110</td>
<td>Introduction to Computer and Information Science</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 151</td>
<td>Networks and Digital Communication</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 125</td>
<td>Visual Basic I</td>
<td>3 units (OR)</td>
</tr>
<tr>
<td>CIS 254</td>
<td>Introduction to Object-Oriented Program Design</td>
<td>4 units</td>
</tr>
<tr>
<td>ELEC 110</td>
<td>Introduction to Fundamentals of Electronics</td>
<td>3 units</td>
</tr>
<tr>
<td>ELEC 215</td>
<td>Introduction to PC Hardware</td>
<td>3 units</td>
</tr>
</tbody>
</table>

Appendices/Page 50
ELEC 216  PC Troubleshooting and System Maintenance ................. 3 units

Plus, select 3 units from the following courses:
CIS 312 UNIX Operating Systems I .................. 1 unit
CIS 313 UNIX Operating Systems II .................. 1 unit
BUSW 114 Windows Fundamentals I ..................
BUSW 115 Windows Fundamentals II .................. 1.5 units

COSMETOLOGY

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

Associate in Arts Degree
Cosmetology............. 57 units

Certificate of Achievement
Cosmetology............. 57 units

Recommended high school preparation:
Coursework in Art, Business Mathematics, Accounting, Psychology and Interpersonal Communication.

State Law requires completion of the tenth grade or equivalent. Student must be 17 years of age to be eligible for the State Examination. High School students may enroll in
cosmetology training at College of San Mateo in their junior or senior year. Contact the Cosmetology Department for more information.

Admission Requirements:
Student must complete the four items below.

1. The CSM Admissions Application
2. The Cosmetology Program Application (Contact the Department for an application (650) 574-6363
3. CSM English Placement Test
4. CSM Matriculation requirements

Admissions priority is given to San Mateo Community College District residents.

When space is available, students with previous training may be eligible for admission to the Advanced Standing program in Cosmetology within a one-year period of withdrawal from a previous school and upon submission of State Board records to the Cosmetology Department.

No student who has completed more than 600 hours of approved training in another school will be admitted to the Advanced Standing program.

**Major in Cosmetology**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 57 semester units**

A grade of "C" or higher is required for each course applied to the major.

- COSM 712  Fundamentals of Cosmetology I ...............10 units
- COSM 722  Fundamentals of Cosmetology II.............10 units
- COSM 732  Advanced Cosmetology I ..................18.5–23.5 units
- COSM 742  Advanced Cosmetology II ..............18.5–23.5 units

Upon satisfactory completion of 1600 total hours with grades of “C” or higher, students are qualified to take the California State Board of Cosmetology examination for licensure as a Cosmetologist.

**Cosmetology**

57 semester units required

Complete major requirements listed under Associate in Arts – Major in Cosmetology. A grade of "C" or higher is required for each course applied to the certificate.

**Special Course in Cosmetology**

- COSM 750 – Brush-Up

Refresher course to upgrade skills for students who hold an out-of-state license that require supplemental training to qualify for the California State Bureau of Cosmetology licensing exam.

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**DENTAL ASSISTING**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**Associate in Science Degree**

Dental Assisting ............60 units

**Certificate of Achievement**

Dental Assisting ............31–35.5 units

**Recommended high school preparation:**

Coursework in Science, English, Psychology, and courses in Art that develop manual dexterity.

**Requirements:**

Students are required to take the CSM English Placement Test prior to enrolling in the program. Any student who wants to become licensed by the State of California as a Registered Dental Assistant (RDA) must have a high school diploma or equivalent to qualify for the licensing exam.

**Major in Dental Assisting**

Complete General Education and other requirements listed for the Associate of Science degree and

**Major requirements: 35 semester units**

A grade of “C” or higher is required for each course applied to the major.

- DENT 716  Dental Office Procedures (Fall) .........2.5 units
- DENT 721  Dental Materials I (Fall) ..................3 units
- DENT 722  Dental Materials II (Spring) ..........2 units
- DENT 731  Dental Science I (Fall) ..............3 units
- DENT 732  Dental Science II (Spring) ............3 units
- DENT 735  Communication in Allied Health (Fall) ....1 unit
- DENT 740  Chair side I (Fall) .....................3 units
- DENT 742  Chair side II (Spring) ...........3 units
- DENT 743  Coronal Polish (Spring) ...............0.5 unit
- DENT 749  Pre-Clinical Science (Fall) .............0.5 unit
- DENT 751  Dental Clinic (Fall) ..................1.5 units
- DENT 763  Dental Radiology (Fall and Spring) .........2 units
- DENT 647  Dental Assisting Clinical
A grade of "C" or higher is required for each course applied to the certificate.

DENT 716 Dental Office Procedures (Fall)..............2.5 units
DENT 721 Dental Materials I (Fall)..................3 units
DENT 722 Dental Materials II (Spring)..............
DENT 731 Dental Science I (Fall)......................3 units
DENT 732 Dental Science II (Spring)................3 units
DENT 735 Communication in Allied Health (Fall)........
DENT 740 Chair side I (Fall)...........................
DENT 742 Chair side II (Spring).....................3 units
DENT 743 Coronal Polish (Spring)....................0.5 unit
DENT 744 Dental Sealants (Spring)..................0.5 unit
DENT 749 Pre-Clinical Science (Fall)...............0.5 unit
DENT 751 Dental Clinic (Fall).................1.5 units
DENT 763 Dental Radiology (Fall and Spring)........2 units
DENT 647 Dental Assisting Clinical
Internship (Spring)..........................4 units
SPCH 860 or 100 or 120 Communication in
the Workplace ......................................1 unit

Select 1-1.5 units from the following courses:
ENGL 865 Projects in Workplace Writing ..............1 unit
READ 812 Individualized Reading Improvement .........0.5-3 units

**DRAFTING TECHNOLOGY**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**

60–70 transferable units

California State University
University of California
Independent Colleges and Universities

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**Associate in Science Degree**

CAD/Drafting Technology.......................60 units

**Certificates of Achievement**

CAD/Drafting Technology....................21 units

**Certificates of Specialization**

Computer-Aided Design ...................16–17 units

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**Recommended high school preparation:**

Coursework in Mechanical Drawing, Art, Computers, Mathematics

**University Transfer Program**

Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. Consider university majors that may be listed as Industrial Technology, Construction Management, Construction Engineering Technology. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in CAD/Drafting Technology**

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 21 semester units**

A grade of "C" or higher is required for each course applied to the major.

DRAF 120 Principles of Technical Drawing ........3 units
DRAF 121 Computer-Aided Drafting I.............3 units
DRAF 122 Computer-Aided Drafting II............3 units
DRAF 123 Computer-Aided Drafting III..........3 units
DRAF 124 Computer-Aided Drafting IV..........3 units
DRAF 130 Mechanical Design and
Computer Aided Drafting (CAD) .........3 units

Plus, select 3 units from any course in:

ARCH (Architecture)
BUSW (Business Applications Windows Platform)
ELEC (Electronics)
MANU (Machine Tool Technology)
MULT (Multimedia)
WELD (Welding)
**CAD/Drafting Technology**

21 semester units

Complete major requirements listed under Associate in Science – Major in Drafting. A grade of “C” or higher is required in each course applied to the certificate.

**Computer-Aided Design**

16–17 semester units

A grade of “C” or higher is required in each course applied to the certificate.

- DRAF 120 Principles of Technical Drawing .......... 3 units
- DRAF 121 Computer-Aided Drafting I ................. 3 units
- DRAF 122 Computer-Aided Drafting II ............... 
- DRAF 130 Mechanical Design and Computer Aided Drafting (CAD) .......... 3 units
- CRER 123 Career Exploration and Student Success .......... 1 unit
- ENGL 848 Introduction to Composition and Writing ...... 4 units .... OR
- ENGL 100 Composition and Reading ............ 3 units

**ECONOMICS**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**

60–70 transferable units

California State University
University of California
Independent Colleges and Universities

**Electrical Technology**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

3 units **Certificate of Specialization**

Electrical Technology: Inside Wireman........... 15 units

**Requirements**

The courses required for this degree and certificate are administered by College of San Mateo in conjunction with the Joint Apprenticeship Training Committee. Registration is limited to those students fulfilling the related instructional requirements of the State of California as an indentured apprentice. For information, contact the San Mateo County JATC for Electrical Construction Industry of the Technology Division.

Students must be at least 18 years of age and have a high school diploma or G.E.D. High school mathematics courses or at least one semester of college-level algebra is also required for this course of study.

For course descriptions see 'Apprenticeship Training'.

**Electrical Technology: Inside Wireman**

Complete General Education and other requirements listed for the Associate degree and

15 semester units

A grade of “C” or higher is required in each course applied to the certificate.

- ELEL 731 Electrical Apprenticeship I .............. 1.5 units
- ELEL 732 Electrical Apprenticeship II ............. 1.5 units
- ELEL 733 Electrical Apprenticeship III ............ 1.5 units
- ELEL 734 electrical Apprenticeship IV .......... 1.5 units
- ELEL 735 Electrical Apprenticeship V ............ 1.5 units
- ELEL 736 Electrical Apprenticeship VI ........... 1.5 units
- ELEL 737 Electrical Apprenticeship VII ........... 1.5 units
- ELEL 738 Electrical Apprenticeship VIII ........ 1.5 units
- ELEL 739 Electrical Apprenticeship IX .......... 1.5 units
- ELEL 740 Electrical Apprenticeship X .......... 1.5 units
ELECTRONICS TECHNOLOGY

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

Associate in Science Degree

Electronics Technology
Option 1: Wireless Communications Systems……..60 units
Option 2: Industrial Electronics ……………..60 units
Option 3: Microcomputer Systems …………..60 units
Option 4: General Electronics………………….60 units
Electronics Technology Advanced Placement……60 units

Certificate of Achievement

Electronics Technology
Option 1: Wireless Communications Systems……38 units
Option 2: Industrial Electronics ……………..37 units
Option 3: Microcomputer Systems …………..40 units
Option 4: General Electronics………………….44 units
Electronics Technology Advanced Placement……22 units

Certificates of Specialization

Network Cabling Specialist …………………..10.5 units
Electronics Assembly…………………………7 units

Recommended high school preparation:
Coursework in Electronics, Science, Mathematics, English

Major in Electronics Technology Option 1:
Wireless Communications Systems

Complete General Education and other requirements listed for the Associate degree

Major Requirements: 38 semester units
A grade of "C" or higher is required for each course applied to the major.

BUSW 114 Windows Fundamentals ……………..1.5 units
BUSW 530 Introduction to Internet………………..1.5 units
ELEC 201 D.C. Electronics ……………………..3 units
ELEC 202 A.C. Electronics ……………………..3 units
ELEC 215 Introduction to PC Hardware ………..3 units
ELEC 231 Basic Applied Electronic Mathematics……2 units
ELEC 232 Advanced Electronics Mathematics……..1 unit
ELEC 262 Digital Electronics…………………..4 units
ELEC 275 Active Devices ……………………..4 units
ELEC 282 Introduction to Soldering Rework……..2 units
ELEC 290 Introduction to Communications Systems …3 units
ELEC 320 Linear Circuit Analysis ………………..4 units
ELEC 332 Prototype Project Development………..2 units
ELEC 362 Radio-Frequency Communication ………..4 units

Electronics Technology

Option 1: Wireless Communications Systems

38 semester units

Complete major requirements listed under Associate in Science – Major in Electronics Technology Option 1: Wireless Communications Systems. A grade of "C" or higher is required for each course applied to the certificate.

Major in Electronics Technology

Option 2: Industrial Electronics

Complete General Education and other requirements listed for the Associate degree

Major Requirements: 37 semester units
A grade of "C" or higher is required in each course applied to the major.

BUSW 114 Windows Fundamentals ……………..1.5 units
BUSW 530 Introduction to Internet………………..1.5 units
ELEC 201 D.C. Electronics ……………………..3 units
ELEC 202 A.C. Electronics ……………………..3 units
ELEC 215 Introduction to PC Hardware ………..3 units
ELEC 231 Basic Applied Electronic Mathematics……2 units
ELEC 232 Advanced Electronics Mathematics……..1 unit
ELEC 262 Digital Electronics…………………..4 units
ELEC 275 Active Devices ……………………..4 units
ELEC 282 Introduction to Soldering Rework……..2 units
ELEC 290 Introduction to Communications Systems …3 units
ELEC 320 Linear Circuit Analysis ………………..4 units
ELEC 332 Prototype Project Development………..2 units

Plus, select 3 courses from the following:
ELEC 421 Fundamentals of Electric Motor Control ……4 units
ELEC 422 Introduction to Programmable Logic Controllers. ……………………..4 units
ELEC 424  Hydraulic, Pneumatic and Vacuum Power Systems........4 units
ELEC 441  Sensors and Data Transmission Systems.........4 units
ELEC 442  Electronic and Pneumatic Process Control Systems ........4 units
ELEC 444  Automated Process Control System Design......4 units

Electronics Technology

Option 2:
Industrial Electronics
37 semester units
Complete major requirements listed under Associate in Science – Major in Electronics Technology Option 2: Industrial Electronics. A grade of “C” or higher is required for each course applied to the certificate.

Major in Electronics

Technology

Option 3: Microcomputer Systems
40 semester units

Complete major requirements listed under Associate in Science – Major in Electronics Technology Option 3: Microcomputer Systems. A grade of “C” or higher is required for each course.

Option 4: General Electronics

Major in Electronics

Technology

Option 4: General Electronics

Major Requirements:  44 semester units

A grade of "C" or higher is required in each course applied to the major.

BUSW 114  Windows Fundamentals I...............1.5 units
BUSW 530  Introduction to Internet................1.5 units
ELEC 201  D.C. Electronics .........................3 units
ELEC 202  A.C. Electronics ........................3 units
ELEC 215  Introduction to PC Hardware ............3 units
ELEC 231  Basic Applied Electronic Mathematics......2 units
ELEC 232  Advanced Electronics Mathematics .........1 unit
ELEC 262  Digital Electronics.......................3 units
ELEC 275  Active Devices ............................4 units
ELEC 282  Introduction to Soldering Rework ..........2 units
ELEC 290  Introduction to Communications Systems...3 units
ELEC 320  Linear Circuit Analysis ....................4 units
ELEC 332  Prototype Project Development ............4 units
BUSW 127  Windows 2000 Installation and Support ....2 units
ELEC 216  PC Troubleshooting and System Maintenance ....3 units

Electronics Technology

Option 4: General Electronics

44 semester units

Complete major requirements listed under Associate in Science – Major in Electronics Technology Option 3: Microcomputer Systems. A grade of “C” or higher is required for each course applied to the certificate.
**Major in Electronics**

**Technology**

Advanced Placement for students with an extensive background in electronics from the military, industrial on-the-job training, or other educational institutions. Prior background is evaluated by Electronics faculty. The course substitution process must be used for official evaluation of prior work in the area.

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 22 semester units**

A grade of “C” or higher is required for each course applied to the major.

- **BUSW 114 Windows Fundamentals I**............1.5 units
- **BUSW 530 Introduction to Internet**...............1.5 units
- **ELEC 282 Introduction to Soldering Rework**........2 units
- **ELEC 290 Introduction to Communications Systems**........3 units
- **ELEC 332 Prototype Project Development**...........2 units

Plus additional courses selected from one of the options previous listed with approval of Electronics faculty. A minimum of 22 units must be completed.

**Electronics Technology Advanced Placement**

22 semester units

Complete major requirements listed under Associate in Science – Major in Electronics Technology Advanced Placement. A grade of "C" or higher is required for each course applied to the certificate.

**Network Cabling Specialist**

10.5 semester units

A grade of “C” or higher is required for each course applied to the certificate.

- **ELEC 110 Introduction to Fundamentals of Electronics**........3 units
- **ELEC 131 Copper-Based Network Cabling Fundamentals**........4.5 units

**Electronics Assembly**

7 semester units

A grade of “C” or higher is required for each course applied to the certificate.

- **ELEC 110 Introduction to Fundamentals of Electronics**........3 units
- **ELEC 282 Introduction to Soldering Rework**...........2 units
- **ELEC 332 Prototype Project Development**...........2 units

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**ENGINEERING**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**

*60–70 transferable units*

- California State University
- University of California
- Independent Colleges and Universities

**Associate in Science Degree**

Engineering .................60 units
Engineering Technology: Electronics .................60 units
Engineering Technology: General .................60 units

**Recommended high school preparation:**

Coursework in Mathematics (four years), Physics (one year), Chemistry (one year), Mechanical Drawing (one year), Computer Information Science and English

**University Transfer Program**

Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for Engineering for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Engineering**

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 19 semester units**

A grade of "C" or higher is required for each course applied to the major.

- **ENGR 210 Engineering Graphics**.................4 units
- **ENGR 230 Engineering Statics**.........................3 units
- **ENGR 260 Circuits and Devices**.........................3 units
- **ENGR 270 Materials Science**.........................3 units

Plus, select 5 units from the following courses:

- **CHEM 220 General Chemistry II**....................5 units
- **CHEM 231 Organic Chemistry I**....................5 units
- **CIS 278 (CSI) Programming Methods: C++**...........4 units
- **ECON 100 Principles of Macroeconomics**...........3 units
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics</td>
<td>3</td>
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<tr>
<td>ENGR 140</td>
<td>Introduction to Engineering</td>
<td>1.5</td>
</tr>
<tr>
<td>GEOL 210</td>
<td>General Geology</td>
<td>4</td>
</tr>
<tr>
<td>MATH 200</td>
<td>Elementary Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 270</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 275</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 270</td>
<td>Physics with Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

**Major in Engineering Technology: Electronics**

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 37 semester units**

A grade of "C" or higher is required for each course applied to the major.

- ELEC 220 DC/AC Circuits .................................. 4 units
- ELEC 262 Digital Electronics.............................. 4 units
- ELEC 275 Active Devices ..................................... 4 units
- ELEC 290 Introduction to Communications Systems ....... 3 units
- ELEC 310 Introduction to Microprocessors ............... 3 units
- ELEC 320 Linear Circuit Analysis ............................. 4 units
- ELEC 360 Microcomputer Interfacing ............................ 3 units
- ELEC 370 Nonlinear Circuit Analysis .............................. 4 units
- MATH 241 Applied Calculus I ................................ 5 units
- MATH 242 Applied Calculus II ................................ 3 units

**Major in Engineering Technology: General**

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 26 semester units**

A grade of "C" or higher is required for each course applied to the major.

- ENGR 210 Engineering Graphics .................................. 4 units
- MATH 241 Applied Calculus I ................................ 5 units
- MATH 242 Applied Calculus II ................................ 3 units
- PHYS 210 General Physics I ....................................... 4 units
- PHYS 220 General Physics II ...................................... 4 units

Plus, select 6 units from an area of technology specialization.

Suggested Electives:
- ACTG 100 Accounting Procedures ................................ 3 units
- ENGR 100 Introduction to Engineering .......................... 3 units
- CIS 278 (CS1) Programming Methods: C++ ..................... 4 units
- MATH 200 Elementary Probability and Statistics ............ 4 units

Or other technical courses

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**ENGLISH**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**

60–70 transferable units

California State University
University of California
Independent Colleges and Universities

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**Associate in Arts Degree**

English ..................................................60 units

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**Recommended high school preparation:**

Coursework in English, Literature, Journalism

**University Transfer Program**

Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in English**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 21–24 semester units**

A grade of "C" or higher is required for each course applied to the major.

Select 3 units from the following courses:

**ENGL 110 Composition, Literature, and Critical Thinking** ................................. 3 units
**ENGL 135 Composition, Fiction, and Critical Thinking** .................................... 3 units

**ENGL 165 Advanced Composition** .................................................. 3 units

And complete 15 units in Group A or Group B below:

Group A - 15 units

- Literature courses in the 100 series, the 200 series, LIT 430
- 9-12 units from Literature courses in the 100 series, the 200 series, LIT 430

And select 3–6 units from Creative Writing classes:

**ENGL 161 Creative Writing** .................................................. 3 units
Plus, select 12 units from the following courses:

ETHN 121 African-American Culture I ...............3 units
ETHN 122 African-American Culture II ...............3 units
ETHN 128 African-American Cinema ....................3 units
ETHN 300 Introduction to La Raza Studies .............3 units

ETHN 310 Native American Way of Life .............3 units
ETHN 351 The Primal Mind and Cultural Diversity ......3 units
ETHN 360 The People and Cultures of Polynesia .........3 units
ETHN 440 Cultural Experience of Asian-American Writers .........3 units
ETHN 585 Ethnicity in Cinema .........................3 units

**ETHNIC STUDIES**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**

60–70 transferable units

California State University
University of California
Independent Colleges and Universities

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**Associate in Arts Degree**
Ethnic Studies .............................................60 units

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**Recommended high school preparation:**
Coursework in History, Social Science, Psychology, Sociology, English

**University Transfer Program**
Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Ethnic Studies**
Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 18 semester units**
A grade of "C" or higher is required for each course applied to the major.

ETHN 101 Introduction to Ethnic Studies I ..............3 units
ETHN 102 Introduction to Ethnic Studies II ...............3 units

Plus, select 12 units from the following courses:

ETHN 150 Social Dynamics of People of Color ............3 units
ETHN 151 Patterns of Prejudice and Racism I ..........3 units
ETHN 152 Patterns of Prejudice and Racism II ........3 units
ETHN 160 Psychology of People of Color ................3 units
ETHN 261 African-American Culture I ....................3 units
ETHN 262 African-American Culture II ....................3 units
ETHN 288 African-American Cinema ....................3 units
ETHN 300 Introduction to La Raza Studies .............3 units

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**FILM**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**

60–70 transferable units

California State University
University of California
Independent Colleges and Universities

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**Associate in Arts Degree**
Film .......................................................60 units

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**University Transfer Program**
Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Film**
Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 21 semester units**
A grade of "C" or higher is required for each course applied to the major.

FILM 100 Introduction to Film .........................3 units
FILM 120 Film History I ..................................3 units
FILM 121 Film History II ..................................3 units
FILM 215 Film and New Digital Media ..................3 units

Plus, select 9 units from the following courses:

FILM 110 American Cinema .........................3 units
FILM 153 Screenwriting ..................................3 units
FILM 200 Film in Focus ..................................3 units
ENGL 161, 162, 163 Creative Writing I/II/III ...........3 units

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units each
ETHN 288  African-American Cinema ..................3 units
ETHN 585  Ethnicity in Cinema .......................3 units
HUM 114  Film and Literature as
Communication in the Modern Era ..................3 units

FIRE TECHNOLOGY

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Science Degree
Fire Technology .....................60 units

Certificate of Achievement
Fire Technology .....................30 units

Recommended high school preparation:
Coursework in Mathematics, English, and use of microcomputers, including spreadsheet and word processing applications.

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for areas such as Fire Protection or Forestry and Land Management for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Firefighter I Academy
The Firefighter Academy is a State Board of Fire Services certified academy that, when combined with a specified experience component, leads to State certification as a Firefighter I.

Emergency Medical Technician
Completion of Fire Technology 795, a seven unit course, and passing the National Registry Test which is offered as part of the course, provides the student with a National Registry certificate as an EMT. This course is also required as a prerequisite for students who want to continue on with paramedic training.

FRENCH

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
I: Select at least 5 units from the following courses:

- FREN 110 Elementary French .................. 5 units
- FREN 111 Elementary French I ................. 3 units
- FREN 112 Elementary French II ................ 3 units
- FREN 120 Advanced Elementary French ....... 5 units
- FREN 121 Advanced Elementary French I ...... 3 units
- FREN 122 Advanced Elementary French II ..... 3 units
- FREN 130 Intermediate French .................. 5 units
- FREN 131 Intermediate French I .............. 3 units
- FREN 132 Intermediate French II .............. 3 units
- FREN 140 Advanced Intermediate French ...... 3 units

II: The balance of units may be from the following courses:

- FREN 115 Beginning French I ................. 3 units
- FREN 116 Beginning French II ................. 3 units
- FREN 117 Advanced Beginning French I ...... 3 units
- FREN 118 Advanced Beginning French II ..... 3 units
- FREN 801 Conversational French I, Elementary 2 units
- FREN 802 Conversational French II, Advanced Elementary ........ 2 units
- FREN 803 Conversational French III, Intermediate 2 units
- FREN 804 Conversational French IV, Advanced Intermediate ........ 2 units

In special circumstances, the Dean of Language Arts may approve the limited use of other courses in the same language (such as those numbered 680 or taken at Skyline or Cañada Colleges). In rare circumstances, the Dean may approve using a course in another discipline if its content is closely related to the language studied.

**GEOGRAPHY**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**

**60–70 transferable units**

California State University
University of California
Independent Colleges and Universities

**University Transfer Program**

Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.
GEOLOGICAL SCIENCES

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Science Degree
Geological Science .................. .................. .................. 60 units

Recommended high school preparation:
Coursework in Chemistry, Biology, Mathematics,

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Major in Geological Science
Complete General Education and other requirements listed for the Associate degree and

Major Requirements: 21 semester units
A grade of “C” or higher is required for each course applied to the major.

- CHEM 210 General Chemistry I ............... ............... 5 units
- CHEM 220 General Chemistry II ......... ............... 5 units
- GEOL 210 General Geology .................. .................. 4 units
- OCEN 100/101 Oceanography and Lab .................. 4 units
- PALN 110 General Paleontology ............... ............... 3 units

GERMAN

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units

California State University
University of California
Independent Colleges and Universities

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

GLOBAL STUDIES

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

Certificate of Specialization
Global Studies ............... ............... ............... 17 units

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Global Studies
17 semester units.
A grade of “C” or higher is required for each course applied to the certificate.

- BUS 125 International Business ............... ............... 3 units
- PLSC 120 Area Studies .................. .................. 3 units

Plus, select 3 units from the following courses:
- GEOG 110 Cultural Geography ............... ............... 3 units
- GEOG 150 World Regional Geography ............... ............... 3 units
- ECON 100 Principles of Macroeconomics ............... ............... 3 units
ECON 102 Principles of Microeconomics.............3 units
Plus, 3 units from the following course:
SPCH 150 Intercultural Communication ............3 units
Plus, select 3 units of any 100 level foreign language course
Plus, 2 units of any Cooperative Education class.

GRAPHICS

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Arts Degree
Graphics .............60 units

Certificate of Achievement
Graphics .............39 units

Recommended high school preparation:
Coursework in Art, Computers, English

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Major in Graphics
Complete General Education and other requirements listed for the Associate degree and

Major Requirements: 39 semester units
A grade of "C" or higher is required for each course applied to the major.
GRA 115 Designing with Type I: Essentials of Typographic Expression ..........3 units
GRA 116 Designing with Type II: Deliverying the Message Effectively ..........3 units
GRA 135 Graphic Design Foundation ...............4 units
GRA 150 Adobe Illustrator for Print and Web Design I ....3 units
GRA 151 Adobe Illustrator for Print and Web Design II ....3 units
GRA 160 Adobe Photoshop for Print and Web Design I ....3 units
GRA 161 Adobe Photoshop for Print and Web Design II ....3 units
GRA 170 Adobe InDesign .................3 units
GRA 235 Graphic Design: Theory and Application ........4 units
GRA 242 Image on Paper: The possibilities of Print ........3 units
GRA 255 Digital Publishing .................3 units
GRA 260 Portfolio ..................1 unit
MULT 172 Web Design: Dreamweaver .............3 units

Graphics
39 semester units
Complete major requirements listed under Associate in Arts – Major in Graphics. A grade of “C” or higher is required for each course applied to the certificate.

HISTORY

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

HORTICULTURE

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

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**Associate in Science Degree**

Horticulture: Environmental Option 1:
- Landscape Constructional Design ........ 60 units
Horticulture: Environmental Option 2:
- Nursery Management .................. 60 units
Horticulture: Environmental Option 3:
- Landscape Management ............... 60 units
Horticulture: Floristry .................. 60 units

**Certificate of Achievement**

Horticulture: Environmental Option 1:
- Landscape Constructional Design ........ 21–25 units
Horticulture: Environmental Option 2:
- Nursery Management .................. 21–25 units
Horticulture: Environmental Option 3:
- Landscape Management ............... 21–25 units
Horticulture: Floristry .................. 21 units

**Recommended high school preparation:**
Coursework in Science, Biology, Art, Design

**University Transfer Program**
Use Assist (www.assist.org) to identify lower division major preparation for Business and Accounting for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Horticulture:**

**Environmental Option 1: Landscape Construction/Design**

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 21–25 semester units**
A grade of “C” or higher is required in each course applied to the major.

**Group A:**

HORT 311 Plant Materials I: Trees ............... 3 units
HORT 312 Plant Materials II: Shrubs and Groundcovers .. 3 units
HORT 315 Landscape Management .................. 3 units

**Group B:**

HORT 327 Nursery Management ............... 3 units

**Plus select Group A or Group B below:**

**Environmental Option 2: Nursery Management**

Complete major requirements listed under Associate in Science – Major in Horticulture: Environment Option 1. A grade of “C” or higher is required for each course applied to the certificate.

**Major in Horticulture: Environmental Option 2: Nursery Management**

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 21–25 semester units**
A grade of “C” or higher is required in each course applied to the major.

**Group A:**

HORT 311 Plant Materials I: Trees ............... 4 units
HORT 312 Plant Materials II:
- Shrubs and Groundcovers .................. 3 units
- Landscape Shrubs, Groundcovers, and Vines .............. 3 units
HORT 315 Landscape Management ............... 3 units

**Plus select Group A or Group B below:**

**Groundcovers, and Vines**
A grade of “C” or higher is required for each course. 

**Major Requirements: 21 semester units**

A grade of “C” or higher is required in each course applied to the major.

**Major in Horticulture: Floristry**

Complete General Education and other requirements listed for the Associate degree and

**Major Requirements: 21 semester units**

A grade of “C” or higher is required for each course applied to the major.

**Major in Horticulture: Environmental Option 3: Landscape Management**

Complete major requirements listed under Associate in Science – Major in Horticulture: Environmental Option 3. A grade of “C” or higher is required for each course applied to the certificate.

**Appendices/Page 65**
HORT 422 Designs for Entertaining ..................0.5 unit
HORT 425 Cut Flower Identification ..................1 unit
HORT 429 Corporate Accounts and Tropical Designs .........5 unit
HORT 690 Special Projects ..................1-2 units
COOP 641 Cooperative Education ................................1-4 units

_Horticulture: Floristry_
_21 semester units_

Complete major requirements listed under Associate in Science – Major in Horticulture: Floristry. A grade of “C” or higher is required for each course applied to the certificate.

_HUMANITIES_

_Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP)._ 

_University Transfer Program_ 
60–70 transferable units

California State University 
University of California 
Independent Colleges and Universities

_Associate in Arts Degree_

Humanities ..................60 units

_University Transfer Program_
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

_Major in Humanities_

Complete General Education and other requirements listed for the Associate degree and

_Major requirements: 18 semester units_

A grade of "C" or higher is required for each course applied to the major.

HUM 101 Intro to Humanities – Greece through Reformation .............3 units
HUM 102 Intro to Humanities – Reformation to Present .................3 units
Plus 12 units selected from the following groupings:

Select 3 units from:
HUM 111 Religion, Literature and Philosophy in Ancient Greece .............3 units
HUM 114 Film and Literature as Communication in the Modern Era .............3 units
Plus, 3 units from the following:
HUM 125 Technology/Contemporary Society/ Human Values .............3 units
Select 3 units from:
HUM 131 Culture and Achievement of African-Americans .............3 units
HUM 133 Culture and Achievement of Asian Americans .............3 units
ANTH 370 Olmec, Maya, Aztec People and Cultures of Mexico & Central America .............3 units
Plus, 3 units from the following:
HUM 140 Cultural Heritage of San Francisco and Its Environs .............3 units

_HUMAN SERVICES_

_Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP)._ 

_University Transfer Program_ 
60–70 transferable units

California State University 
University of California 
Independent Colleges and Universities

_Associate in Arts Degree_

Human Services ..................60 units

_Certificate of Achievement_

Human Services ..................19 units

_Certificates of Specialization_

Community Health Worker ..................14 units
Family Development ..................6 units
Peer Support Services ..................12 units
Psychosocial Rehabilitation ..................6 units

_University Transfer Program_
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the
University of California systems. Research majors in Human Services or related areas such as Social Work, Social Welfare, or Human Resources. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Human Services**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 19 semester units**
A grade of “C” or higher is required for each course applied to the major.

- HMSV 100 Introduction to Human Services .......... 3 units
- HMSV 110 Introduction to Counseling and Interviewing ................. 3 units
- HMSV 115 Introduction to Case Management .......... 3 units
- HMSV 120 Public Assistance and Benefits Program .......... 1 unit

And, select 9 units from the following courses:
- CRER 138 Skill Development for Career Growth ........ 3 units
- CRER 140 Peer Counseling ................. 3 units
- CRER 142 Advanced Peer Counseling ................. 3 units
- HMSV 130 Employment Support Strategies ........... 1-3 units
- HMSV 150 Rehabilitation and Recovery .......... 3 units
- HMSV 151 Current Trends and Issues in Psychosocial Rehabilitation .......... 1-3 units
- HMSV 262 Empowerment Skills for Family Workers ........ 3 units
- HMSV 264 Support Family Success .......... 3 units
- **PSYC 100 General Psychology** ................. 3 units
- PSYC 108 Psychology in Practice ................. 3 units
- **SOCI 100 Introduction to Sociology** .......... 3 units
- SPCH 120 Interpersonal Communication ................. 3 units
- SOSC 301 Introduction to Alcohol and Other Drug Studies .......... 3 units

**Human Services**

19 semester units

Complete major requirements listed under Associate in Major in Human Services. A grade of “C” or higher is required for each course applied to the certificate.

**Community Health Worker**

14 semester units

A grade of “C” or higher is required for each course applied to the certificate.

- HMSV 262 Empowerment Skills for Family Worker ........ 3 units
- HMSV 264 Support Family Success .......... 3 units
- **HSCI 100 General Health Education** .......... 2 units

Plus 3 units of

Any HSCI (Health Science courses) .......... 3 units

Plus 3 units selected from

- HMSV 100 Introduction to Human Services ........ 3 units
- HMSV 110 Introduction to Counseling and Interviewing ........ 3 units
- HMSV 115 Introduction to Case Management ........ 3 units
- HMSV 150 Rehabilitation and Recovery .......... 3 units
- HMSV 151 Current Trends & Issues in Psychosocial Rehabilitation .......... 3 units

**Family Development**

6 semester units

A grade of “C” or higher is required for each course applied to the certificate.

- HMSV 262 Empowerment Skills for Family Worker ........ 3 units
- HMSV 264 Support Family Success .......... 3 units

**Peer Support Services**

12 semester units

A grade of “C” or higher is required for each course applied to the certificate.

- CRER 138 Skill Development for Career Growth ........ 3 units
- Select 3 units from the following courses:
  - CRER 140 Peer Counseling ................. OR
  - HMSV 110 Introduction to Counseling and Interviewing ................. 3 units

Select 3 units from the following courses:

- CRER 142 Advance Peer Counseling ................. OR
- HMSV 150 Rehabilitation and Recovery .......... 3 units

Select 3 units from the following courses:

- Any COOP selection Cooperative Education .......... 3 units

**Psychosocial Rehabilitation**

6 semester units

A grade of “C” or higher is required for each course applied to the certificate.

- HMSV 150 Rehabilitation and Recovery .......... 3 units
- HMSV 151 Current Trends and Issues in Psychosocial Rehabilitation .......... 3 units

**INTERDISCIPLINARY STUDIES**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

- University Transfer Program
60–70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Arts Degree
Interdisciplinary Studies with an
Area of Emphasis with three options:
Option 1 - Intercultural Studies ................. 60 units
Option 2 - Contemporary Issues.................. 60 units
Option 3 - Science and Society.................... 60 units

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Major in Interdisciplinary Studies,
Option 1: Intercultural Studies
This degree option introduces students to multiple cultural perspectives to enable them to be informed, engaged citizens in a multicultural society. Depending on the student’s focus, this degree offers transfer opportunities into areas such as World Arts and Cultures, Global Studies, Multicultural Studies, and Ethnic Studies. Students should work with a counselor to identify any additional supporting classes for transfer to a particular program and university. Note: most courses listed in this major can also be used to meet requirements for the California State University General Education or IGETC.

Complete General Education and other requirements listed for the Associate degree and

Major requirements: A minimum of 18 units
A grade of “C” or higher is required for each course applied to the major.
At least 3 units of courses that examine more than one culture within the course to be selected from the following options:

ANTH 110 Cultural Anthropology .......... 3 units
ANTH 180 Magic, Science & Religion .......... 3 units
ETHN 351 The Primal Mind and Cultural Diversity .......... 3 units
ETHN 585 Ethnicity in Cinema .......... 3 units
GEOG 110 Cultural Geography .......... 3 units
LIT 220 Introduction to World Literature .......... 3 units
PHIL 300 Introduction to World Religions .......... 3 units
PLSC 110 Contemporary Foreign Governments .......... 3 units
SPCH 150 Intercultural Communication .......... 3 units

At least 6 units of courses in the arts and literature to be selected from the following options:

ART 100 Art of the Western World .......... 3 units
ETHN 288 African-American Cinema .......... 3 units
ETHN 350 Native American Way of Life .......... 3 units
ETHN 440 Cultural Experience of Asian-American Writers .......... 3 units
HUM 131 Cultural Achievements of African-Americans .......... 3 units
HUM 133 Cultural Achievements of Asian Americans .......... 3 units
LIT 232 Survey of English Literature .......... 3 units
LIT 430 Mythology and Folklore .......... 3 units

At least 9 units of courses in the areas of social, political, and economic institutions to be selected from the following options:

ANTH 370 Olmec, Maya, and Aztec People and Cultures of Mexico and Central America .......... 3 units
ETHN 101 Introduction to Ethnic Studies I .......... 3 units
ETHN 102 Introduction to Ethnic Studies II .......... 3 units
ETHN 150 Social Dynamics of People of Color .......... 3 units
ETHN 261 African-American Culture I .......... 3 units
ETHN 262 African-American Culture II .......... 3 units
ETHN 300 Introduction to La Raza Studies .......... 3 units
ETHN 360 The People and Cultures of Polynesia:
   An Introduction .......... 3 units
ETHN 440 Cultural Experience of Asian-American Writers .......... 3 units
HIST 100 History of Western Civilization I .......... 3 units
HIST 101 History of Western Civilization II .......... 3 units
HIST 102 History of American Civilization .......... 3 units
HIST 260 Women in American History .......... 3 units
PLSC 120 Area Studies .......... 3 units
PLSC 212 Introduction to American Politics and Society .......... 3 units
SOSC 220 British Life and Culture .......... 3 units
SOSC 221 French Life and Culture .......... 3 units

Major in Interdisciplinary Studies,
Option 2: Contemporary Issues
This degree option provides students with both an introduc-
tion to the wide range of issues facing contemporary society and the tools to analyze these issues critically. Depending on the student’s focus, this degree offers transfer possibilities into such majors as Communications, Environmental Studies, Ethnic Studies, Sociology, and Social Services. Note: most courses listed in this major can also be used to meet requirements for the California State University General Education or IGETC.

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: A minimum of 18 units**

A grade of “C” or higher is required for each course applied to the major.

At least 6 units of courses that introduce students to major disciplines in the social sciences. The 6 units of courses must be selected from the following options and include at least two different discipline areas:

- **BUS 100 Contemporary American Business** .................. 3 units
- **ECON 100 Principles of Macroeconomics** .................. 3 units
- **ECON 102 Principles of Microeconomics** .................. 3 units
- **GEOG 110 Cultural Geography** .......................... 3 units
- **PSYC 100 General Psychology** .......................... 3 units
- **PSYC 300 Social Psychology** .......................... 3 units
- **SOCI 100 Introduction to Sociology** .......................... 3 units
- **SPCH 100 Public Speaking** .......................... 3 units

At least 3 units of courses in statistics or critical thinking, selected from the following:

- **ECON 123 Business-Economic Statistics** .......................... 3 units
- **ENGL 165 Advanced Composition** .......................... 3 units
- **MATH 147 Mathematics and Global Studies** .................. 4 units
- **MATH 200 Elementary Probability and Statistics** .................. 4 units
- **PHIL 103 Critical Thinking** .......................... 3 units
- **PSYC 121 Basic Statistical Concepts** .......................... 3 units
- **SOSC 111 Critical Thinking and Writing** .......................... 3 units

At least 9 units of courses that explore particular issues facing contemporary society. The 9 units of courses must be selected from the following options and include at least two different discipline areas:

- **ARCH 100 Survey of Contemporary Architecture** .......................... 3 units
- **BIOL 102 Environmental Conservation** .......................... 3 units
- **BIOL 195 Biology Field Laboratory** .......................... 1 unit
- **BCST 110 Media in Society** .......................... OR
- **DGME 100 Media in Society** .......................... 3 units
- **DGME 102 Media Law and Ethics** .......................... 3 units
- **ETHN 151 Patterns of Prejudice and Racism I** .......................... 3 units
- **ETHN 152 Patterns of Prejudice and Racism II** .......................... 3 units
- **HSCI 112 Current Health Issues** .......................... 1 unit
- **JOUR 110 Mass Media in Society** .......................... OR
- **DGME 100 Media in Society** .......................... 3 units

**PHIL 244 Contemporary Social and Moral Issues** .......................... 3 units

**PLSC 130 International Relations** .......................... 3 units

**PLSC 215 Contemporary Issues in American Politics** .......................... 3 units

**PLSC 250 Civil Liberties and Civil Rights** .......................... 3 units

**SOCI 105 Social Problems** .......................... 3 units

**SOCI 141 Race and Ethnic Relations** .......................... 3 units

**SOCI 200 Urban Sociology** .......................... 3 units

**Major in Interdisciplinary Studies,**

**Option 3: Science and Society**

This degree provides students with the foundation from which to understand the impact of scientific issues on contemporary society. Depending on the student’s focus, this major offers transfer possibilities in the social sciences, including Economics, Sociology, and Social/Behavioral Sciences, and in more specialized interdisciplinary majors such as Environmental Economics and Policy, Environmental Analysis and Design, Social Ecology, Community and Regional Development, and Development Studies. Students should work with a counselor to identify the appropriate mathematics classes and any additional supporting classes for transfer to a particular program and university. Note: most courses listed in this major can also be used to meet requirements for the California State University General Education or IGETC.

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: A minimum of 19 units**

A grade of “C” or higher is required for each course applied to the major.

At least 3 units of courses that link science with society, to be selected from:

- **HUM 125 Technology/Contemporary Society/ Human Values** .......................... 3 units
- **MATH 147 Mathematics and Global Studies** .......................... 4 units
- **PHIL 244 Contemporary Social and Moral Issues** .......................... 4 units

At least 7 units of courses in the sciences to be selected from the following options:

- **BIOL 100 Introduction to Life Sciences** .......................... 3 units
- **BIOL 102 Environmental Conservation** .......................... 3 units
- **BIOL 110 General Principles of Biology** .......................... 4 units
- **BIOL 145 Plants, People, and Environment** .......................... 3 units
- **BIOL 184 Wildlife Biology** .......................... 3 units
- **BIOL 195 Biology Field Laboratory** .......................... 1 unit
- **GEOL 100 Survey of Geology** .......................... 3 units
- **HUM 125 Technology/Contemporary Society** .......................... 1 unit
- **METE 100 Elementary Meteorology** .......................... 3 units
- **METE 101 Meteorology Laboratory** .......................... 1 unit
Select at least 5 units from the following courses: course applied to the certificate.

"Pass" or grade of "C" or higher is required for each course applied to the certificate.

The balance of units may be from the following list of courses:

ITAL 100 Oceanography... 3 units
ITAL 101 Oceanography Laboratory/Field Study... 1 unit

At least 9 units of courses in the social sciences to be selected from the following options:

ANTH 110 Cultural Anthropology... 3 units
ANTH 180 Magic, Science & Religion... 3 units
ECON 100 Principles of Macroeconomics... 3 units
ECON 102 Principles of Microeconomics... 3 units
GEOG 100 Physical Geography... 3 units
GEOG 110 Cultural Geography... 3 units
GEOG 150 World Regional Geography... 3 units
PLSC 215 Contemporary Issues in American Politics... 3 units
PSYC 100 General Psychology... 3 units
PSYC 220 Introduction to Psychobiology... 3 units
SOC 100 Introduction to Sociology... 3 units
SOC 105 Social Problems... 3 units
SOC 200 Urban Sociology... 3 units

ITALIAN

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program

60 – 70 transferable units

California State University
University of California
Independent Colleges and Universities

Certificate of Specialization

Italian... 12 units

JAPANESE

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program

60 – 70 transferable units

California State University
University of California
Independent Colleges and Universities

Certificates of Specialization

Japanese... 12 units

University Transfer Program

Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Italian

12 semester units

"Pass" or grade of "C" or higher is required for each course applied to the certificate.

Select at least 5 units from the following courses:

ITAL 110 Elementary Italian... 5 units
ITAL 111 Elementary Italian I... 3 units
ITAL 112 Elementary Italian II... 3 units
ITAL 120 Advanced Elementary Italian... 5 units
ITAL 121 Advanced Elementary Italian I... 3 units
ITAL 122 Advanced Elementary Italian II... 3 units
ITAL 115 Beginning Italian I... 3 units
ITAL 116 Beginning Italian II... 3 units
ITAL 117 Advanced Beginning Italian I... 3 units
ITAL 118 Advanced Beginning Italian II... 3 units
ITAL 801 Conversational Italian I, Elementary... 2 units
ITAL 802 Conversational Italian II, Advanced... 2 units

In special circumstances, the Dean of Language Arts may approve the limited use of other courses in the same language (such as those numbered 680 or taken at Skyline or Cañada Colleges). In rare circumstances, the Dean may approve using a course in another discipline if its content is closely related to the language studied.
“Pass” or grade of “C” or higher is required for each course applied to the certificate.

Select at least 12 units from the following courses applied to the certificate:

- JAPN 110 Elementary Japanese .......... 5 units
- JAPN 111 Elementary Japanese I .......... 3 units
- JAPN 112 Elementary Japanese II .......... 3 units
- JAPN 120 Advanced Elementary Japanese .......... 5 units
- JAPN 121 Advanced Elementary Japanese I .......... 3 units
- JAPN 122 Advanced Elementary Japanese II .......... 3 units

In special circumstances, the Dean of Language Arts may approve the limited use of other courses in the same language (such as those numbered 680 or taken at Skyline or Cañada Colleges). In rare circumstances, the Dean may approve using a course in another discipline if its content is closely related to the language studied.

**Major in Journalism**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 19 semester units**

A grade of "C" or higher is required for each course applied to the major.

- JOUR 110 Mass Media in Society .......... 3 units
- JOUR 120 Newswriting .......... 4 units
- JOUR 300 Newspaper Production .......... 3 units

Plus, select 9 units from English and/or literature courses

### LIFE SCIENCES

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**

60–70 transferable units

California State University

University of California

Independent Colleges and Universities

---

**Associate in Arts Degree**

Life Sciences: General .......... 60 units

**Associate in Science Degree**

Life Sciences: Biological .......... 60 units

Life Sciences: Biotechnology .......... 60 units

Life Sciences: Medical

- (Pre-Med, Pre-Dental, Pre-Vet) .......... 60 units
- Life Sciences: Pre-Nursing .......... 60 units

**Certificate of Specialization**

Biotechnology .......... 11–12 units

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**Recommended high school preparation:**

One year of Biology, Chemistry, Physics, four years of Mathematics, English

**University Transfer Program**

Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the
Major in Life Sciences: General

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 19 - 23 semester units
A grade of "C" or higher is required for each course applied to the major.

4 - 5 units from the following courses:
- BIOL 110 General Principles of Biology ............... 4 units
- BIOL 210 General Zoology .......................... 5 units
- BIOL 220 General Botany .............................. 5 units
- BIOL 230 Introductory Cell Biology .................... 4 units

12 - 15 units from the following courses:
- BIOL 102 Environmental Conservation ............. 3 units
- BIOL 110 General Principles of Biology .............. 4 units
- BIOL 130 Human Biology ............................ 3 units
- BIOL 145 Plants, People, and Environment .......... 3 units
- BIOL 184 Wildlife Biology ............................ 3 units
- BIOL 195 Biology Field Laboratory .................. 1 unit
- BIOL 210 General Zoology ............................. 5 units
- BIOL 220 General Botany .............................. 5 units
- BIOL 230 Introductory Cell Biology .................... 4 units

Plus, 3 units of a Physical Science –
- ASTR, CHEM, GEOG, GEOL, METE, OCEN, PALN, PHYS, PSCI

Students are encouraged to group course selections as follows to emphasize their major interests.

Human Biology: BIOL 110, 130, CHEM 410 or 210
Marine Biology: BIOL 110, OCEN 100 or GEOL 100
Natural History: BIOL 110, 111, 200, GEOL 100 or METE 100

or GEOG 100

Wildlife/Forestry: BIOL 102, 110 or 184, GEOL 100 or METE 100

Major in Life Sciences: Biotechnology

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 25 semester units
A grade of "C" or higher is required for each course applied to the major.

- BIOL 123 Biotechnology Workshop .................. 1 unit
- BIOL 210 or 220 General Zoology ............... 5 units
- or General Botany .................................... 5 units
- BIOL 230 Introductory Cell Biology .................... 4 units
- BIOL 240 General Microbiology ..................... 4 units
- BIOL 666 Careers in Biotechnology and Biology ........ 1 unit
- CHEM 210 General Chemistry I ...................... 5 units
- CHEM 220 General Chemistry II ...................... 5 units

Students with little or no high school preparation should first complete BIOL 100, CHEM 100 or 192, and PHYS 100 prior to beginning major coursework.

Biotechnology

11–12 semester units
A grade of “C” or higher is required for each course applied to the certificate.

- BIOL 123 Biotechnology Workshop .................. 1 unit
- BIOL 666 Careers in Biotechnology and Biology ........ 1 unit
- CHEM 210 or 220 General Chemistry I/II ............ 5 units

Plus select one course from the following:

- BIOL 110, 210, 220, 230, 240

Major in Life Sciences: Medical

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 19 semester units
A grade of "C" or higher is required for all courses applied to the major.

- BIOL 210 General Zoology .............................. 5 units
- BIOL 230 Introductory Cell Biology .................... 4 units
- CHEM 210 General Chemistry I ...................... 5 units
- CHEM 220 General Chemistry II ...................... 5 units
Major in Life Sciences:

Pre-Nursing

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 21–23 semester units
A grade of "C" or higher is required for all courses applied to the major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 240 General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 250 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 260 Introduction to Physiology</td>
<td>5</td>
</tr>
</tbody>
</table>

Plus 8 or 10 units from one of the following groups

Group 1: CHEM 210 and 220 ........ 10 units
Group 2: CHEM 410 and 420 ........ 8 units

MANAGEMENT

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program

60–70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Arts Degree

Business Management .............. 60 units
Marketing Management .............. 60 units
Retail Management ................. 60 units

Certificate of Achievement

Business Management .............. 24 units
Marketing Management .............. 24 units
Retail Management ................ 31–32 units

Certificates of Specialization

Human Resource Management ........ 9 units
Project Management ................. 12 units

University Transfer Program
Use Assist (www.assist.org) to identify lower division ma-

jor preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Major in Management:

Business Management

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 24 semester units
A grade of "C" or higher is required for each course applied to the major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 100 Contemporary American Business</td>
<td>3 units</td>
</tr>
<tr>
<td>MGMT 100 Intro to Business Management</td>
<td>3 units</td>
</tr>
<tr>
<td>MGMT 235 Techniques of Supervision</td>
<td>3 units</td>
</tr>
<tr>
<td>ACTG 100 or 3 units from BUSW series</td>
<td>3 units</td>
</tr>
</tbody>
</table>

Plus select 12 units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 101 Human Relations I ................</td>
<td>3</td>
</tr>
<tr>
<td>BUS 150 Small Business Management ..........</td>
<td>3</td>
</tr>
<tr>
<td>BUS 180 Marketing ..........................</td>
<td>3</td>
</tr>
<tr>
<td>CIS 110 Introduction to CIS</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 215 Management of Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 220 Organizational Behavior ..........</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 265 Project Management ...............</td>
<td>3</td>
</tr>
<tr>
<td>COOP 641 Cooperative Work Experience Ed ..</td>
<td>3</td>
</tr>
</tbody>
</table>

Business Management

24 semester units
Complete major requirements listed under Associate in Arts – Major in Business Management A grade of “C” or higher is required for each course applied to the certificate.

Major in Management:

Marketing Management

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 24 semester units
A grade of "C" or higher is required for each course applied to the major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 100 Introduction to Business Management</td>
<td>3 units</td>
</tr>
<tr>
<td>MGMT 235 Techniques of Supervision</td>
<td>3 units</td>
</tr>
<tr>
<td>BUS 100 Contemporary American Business</td>
<td>3 units</td>
</tr>
<tr>
<td>BUS 180 Marketing</td>
<td>3 units</td>
</tr>
<tr>
<td>CIS 110 Introduction to CIS</td>
<td>3 units</td>
</tr>
</tbody>
</table>

Plus select 12 units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 215 Management of Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 220 Organizational Behavior ..........</td>
<td>3</td>
</tr>
</tbody>
</table>

Appendices/Page 73
MGMT 265  Project Management .... 3 units
BUSW series .... 1.5–3 units

Marketing Management
24 semester units
Complete major requirements listed under Associate in Arts – Major in Marketing Management. A grade of “C” or higher is required for each course applied to the certificate.

Management: Retail Management
Complete General Education and other requirements listed for the Associate degree and

Major requirements: 32 semester units
A grade of "C" or higher is required for each course applied to the major.

ACTG 100  Accounting Procedures .... 3 units
ACTG 121  Financial Accounting .... 4 units
BUS 101  Human Relations I .... 3 units
BUS 115  Business Mathematics .... 3 units
BUS 180  Marketing .... 3 units
BUS 186 (Canada College) .... OR
BUS 190 (Skyline College) .... OR
BUS 295  Computer Systems in Business .... 4 units
BUS 401  Business Communications .... 3 units
MGMT 100  Introduction to Business Management .... 3 units
MGMT 235  Techniques of Supervision .... 3 units
MGMT 215  Management of Human Resources .... 3 units
SPCH 120  Interpersonal Communication .... 3 units

Retail Management
31–32 semester units
Complete major requirements listed under Associate in Arts – Major in Retail Management. A grade of “C” or higher is required for each course applied to the certificate.

Human Resources Management
9 semester units
A grade of “C” or higher is required for each course applied to the certificate.

MGMT 100  Introduction to Business Management .... 3 units
MGMT 215  Management of Human Resources .... 3 units
Plus select 3 units from the following courses:
BUS 101  Human Relations I .... 3 units
MGMT 220  Organizational Behavior .... 3 units
MGMT 235  Techniques of Supervision .... 3 units

12 semester units
A grade of “C” or higher is required for each course applied to the certificate.

MGMT 100  Introduction to Business Management .... 3 units
MGMT 265  Project Management .... 3 units
BUSW 450 Microsoft Project Fund. I .... 1.5 units
BUSW 451 Microsoft Project Fund. II .... 1.5 units
Plus select 3 units from the following courses:
BUS 101  Human Relations I .... 3 units
MGMT 220  Organizational Behavior .... 3 units

MANUFACTURING TECHNOLOGY
Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units
California State University
University of California
Independent Colleges and Universities

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

MATHEMATICS
Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units
California State University
University of California
Independent Colleges and Universities

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units
California State University
University of California
Independent Colleges and Universities

Appendices/Page 74
Multimedia Option 1: Digital Video .................60 units
Multimedia Option 3: Digital Audio... .................60 units

Certificate of Achievement
Multimedia Web Design ................. 30 units
Multimedia Digital Video .................28.5 units
Multimedia Digital Audio.................25.5 units

Certificates of Specialization
Multimedia Web Design .................12 units
Multimedia Digital Video .................12 units

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Multimedia Option 1: Web Design
Complete General Education and other requirements listed for the Associate degree and

Major requirements: 22–24 semester units
A grade of "C" or higher required for each course applied to the major.
MATH 251 Calculus with Analytical Geometry I ..........5 units
MATH 252 Calculus with Analytical Geometry II ..........5 units
MATH 253 Calculus with Analytical Geometry III ..........5 units
Plus select 7-9 units from the following courses:
MATH 200 Elementary Probability and Statistics ...........4 units
MATH 268 Discrete Mathematics .........................4 units
MATH 270 Linear Algebra ........................................3 units
MATH 275 Ordinary Differential Equations .................3 units
CIS 278 Programming Methods C++ .......................3 units

MULTIMEDIA
Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Arts Degree
Multimedia Option 1: Web Design .................60 units
Multimedia Option 2: Digital Video

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 28.5 semester units

A grade of "C" or higher is required for each course applied to the major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULT 102 Introduction to Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>(replaces 105 &amp; 107)</td>
<td></td>
</tr>
<tr>
<td>MULT 177 Multimedia Graphics -</td>
<td></td>
</tr>
<tr>
<td>(Photoshop/Fireworks)</td>
<td>3</td>
</tr>
<tr>
<td>MULT 187 Final Cut Pro (replaces 182 &amp; 183)</td>
<td></td>
</tr>
<tr>
<td>MULT 184 Digital Video (replaces 180 &amp; 181)</td>
<td></td>
</tr>
<tr>
<td>MULT 192 Digital Audio (replaces 190 &amp; 191)</td>
<td></td>
</tr>
<tr>
<td>MULT 282 After Effects (replaces 280 &amp; 281)</td>
<td></td>
</tr>
<tr>
<td>MULT 292 DVD Studio Pro (replaces 290 &amp; 291)</td>
<td></td>
</tr>
<tr>
<td>MULT 387 Digital Video Workflow</td>
<td></td>
</tr>
<tr>
<td>(replaces 385 &amp; 386)</td>
<td>3</td>
</tr>
<tr>
<td>BCST 312 Field Lighting/Studio Lighting</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Electives - choose 3 units form the following:

- MULT 113, BCST 110
- Strongly recommended: MULT 392

Multimedia Digital Audio

25.5 semester units

Complete major requirements listed under Associate in Arts – Major in Multimedia Option 3: Digital Audio. A grade of "C" or higher is required for each course applied to the certificate.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULT 102 Introduction to Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>(replaces 105 &amp; 107)</td>
<td></td>
</tr>
<tr>
<td>MULT 192 Digital Audio (replaces 190 &amp; 191)</td>
<td></td>
</tr>
<tr>
<td>MULT 297 Pro Tools LE (replaces 295 &amp; 296)</td>
<td></td>
</tr>
<tr>
<td>MULT 317 Digital Studio Recording</td>
<td></td>
</tr>
<tr>
<td>(replaces 315 &amp; 316)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 290 Electronic Music I</td>
<td></td>
</tr>
<tr>
<td>MUS 291 Electronic Music II</td>
<td></td>
</tr>
<tr>
<td>MUS 292 Sound Creation: Sampling and Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 293 Audio for Visual Media</td>
<td></td>
</tr>
<tr>
<td>Plus, 3 units from the following courses:</td>
<td></td>
</tr>
</tbody>
</table>

Multimedia Web Design

12 semester units

A grade of "C" or higher is required for each course applied to the certificate.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULT 172 Web Design: Dreamweaver</td>
<td>3</td>
</tr>
<tr>
<td>(replaces 170 &amp; 171)</td>
<td></td>
</tr>
<tr>
<td>MULT 177 Graphics for Multimedia (Photoshop)</td>
<td></td>
</tr>
<tr>
<td>(replaces 175 &amp; 176)</td>
<td>3</td>
</tr>
<tr>
<td>MULT 253 Multimedia Design (replaces 251 &amp; 252)</td>
<td></td>
</tr>
<tr>
<td>MULT 274 Flash (replaces 270 &amp; 271)</td>
<td>3</td>
</tr>
</tbody>
</table>

Multimedia Digital Video

12 semester units

A grade of "C" or higher is required for each course applied to the certificate.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULT 184 Digital Video (replaces 180 &amp; 181)</td>
<td>3</td>
</tr>
<tr>
<td>MULT 187 Final Cut Pro (replaces 182 &amp; 183)</td>
<td>3</td>
</tr>
<tr>
<td>MULT 282 After Effects (replaces 280 &amp; 281)</td>
<td>3</td>
</tr>
<tr>
<td>MULT 292 DVD Studio Pro (replaces 290 &amp; 291)</td>
<td>3</td>
</tr>
</tbody>
</table>

MUSIC

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units

California State University
University of California
Independent Colleges and Universities

3 units Associate in Arts Degree

- 2 units Electronic Music .......................... 60 units
Certificate of Achievement

Electronic Music: 3 units

University Transfer Program

Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Music

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 33.5 semester units

A grade of "C" or higher is required for each course applied to the major.

Theory and Musicianship Core, 19.5 units:

MUS 131 Harmony I... .................................3 units

AND

MUS 101 Musicianship I... ...............................3 units

MUS 132 Harmony II... .................................3 units

AND

MUS 102 Musicianship II... ..............................3 units

MUS 133 Harmony III... .................................3 units

AND

MUS 103 Musicianship III... .............................3 units

Plus, concurrent enrollment during the above 3 semesters in MUS 800 for a total of 1.5 units.

(It is recommended that students complete a 4th semester of Harmony and Musicianship: MUS 134, MUS 104 and MUS 800)

Ensemble Requirements, 4 units - select from the following courses:

MUS 451 Jazz Workshop... ..........................1 unit

MUS 452 Repertory Jazz Band ...........................1 unit

MUS 430 Symphonic Band ..............................1 unit

MUS 470 CSM Singers .................................1 unit

MUS 665 Special Topics in Music Performance ....0.5–1 unit

History Requirements, 6 units

MUS 202 Music Listening and Enjoyment (required course) .........................3 units

And select one from the following courses:

MUS 250 World Music ..........................3 units

MUS 275 History of Jazz ............................3 units

Instrumental/Voice Requirements, 3 units - select from the following courses:

MUS 302-304 Piano II, III, IV ............................1 unit each

MUS 371-374 Guitar I, II, III, IV ........................1 unit each

MUS 401-404 Voice I, II, III, IV ........................1 unit each

Keyboard Proficiency Requirement, 1 unit

MUS 301 Piano I (required course) ..........................1 unit

Electronic Music

Complete General Education and other requirements listed for the Associate degree and

Major requirements: 26.5 semester units

A grade of "C" or higher is required for each course applied to the major.

MUS 290 Electronic Music I ..........................3 units

MUS 291 Electronic Music II ............................2 units

MUS 292 Sound Creation: Sampling and Synthesis ..........................3 units

MUS 293 Audio for Visual Media ..........................2.5 units

CIS 110 Introduction to Computer and Information Science ..................3 units

ELEC 110 Introduction to Fundamentals of Electronics ..................3 units

Plus, select 6 units from the following courses:

MUS 100 Fundamentals of Music ..........................3 units

AND

MUS 101 Musicianship I... ...............................OR

MUS 101 Musicianship I... ...............................3 units

AND

MUS 131 Harmony I... .................................3 units

MUS 132 Musicianship II... ..............................3 units

MUS 133 Harmony III... .................................3 units

MUS 103 Musicianship III... .............................3 units

AND

MUS 134 Harmony IV... .................................3 units

Plus, select 1 unit from the following courses:

MUS 301-304 Piano I, II, III, IV ............................1 unit each

Plus, select 3 units from the following courses:

MUS 202 Music Listening and Enjoyment ..........................3 units

MUS 250 World Music ..........................3 units

MUS 275 History of Jazz ............................3 units

Appendices/Page 77
Electronic Music  
26.5 semester units
Complete major requirements listed under Associate in Arts – Major in Electronic Music. A grade of “C” or higher is required for each course applied to the certificate.

NURSING –
REGISTERED NURSING PROGRAM
Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Science Degree  
Nursing .................. ............... 74–85 units

Recommended high school preparation:
Coursework in Biology, Chemistry, Anatomy, English, Mathematics, Psychology

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Nursing Program Admissions Requirements
Go to the CSM Nursing Program web site for the current admissions information (collegeofsanmateo.edu/nursing). At this site print the Nursing Program Information Sheet and the Nursing Articulation Grid for detailed information about admissions requirements and processes. You may also contact the Nursing Department, 650-574-6218.

Admissions Requirements
If there are more applicants than spaces available, the following applicants are given priority.

1. Applicants who have completed the "pre admission" major requirements.
2. Applicants with a grade point average of 2.5 or higher for all pre admissions and major course requirements.
3. Applicants who have completed Biology 240, Biology 250, and Biology 260 with a cumulative grade point average of 2.5 for this group and no grade less than C in each course and no more than one repetition of any of these courses.
4. Applicants with equal priority are selected by a computerized random number system.
5. Applicants are required to successfully complete an assessment test prior to the entry into the program. In the event that the applicant does not pass the test, they need to successfully complete remediation course work prior to entry into the nursing program.

Major in Nursing
Complete General Education and other requirements listed for the Associate degree and

Major requirements: 74–85 semester units
A grade of “C” or higher is required in each course applied to the major.

NURS 211  Introduction to Nursing ........... .................. 4.5 units
NURS 212  Concepts of Homeostasis in Nursing .................. 4.5 units
NURS 215  Nursing Skills Lab I .................. .................. 0.5 unit
NURS 221  Pediatric Nursing .......................... .................. 4.5 units
NURS 222  Maternity Nursing .................. .................. 4.5 units
NURS 225  Nursing Skills Lab II .................. .................. 0.5 unit
NURS 231  Psychiatric Nursing .................. .................. 5 units
NURS 232  Medical/Surgical Nursing .................. .................. 5 units
NURS 235  Nursing Skills Lab III .................. .................. 0.5 unit
NURS 241  Advanced Medical/Surgical Nursing .................. 5 units
NURS 242  Leadership/Management in Nursing .................. 5 units
NURS 245  Nursing Skills Lab IV .................. .................. 0.5 unit
NURS 808  Open Skills Laboratory .................. .................. 0.5–3 units
BIOL 240  General Microbiology .................. .................. 4 units
BIOL 250  Anatomy .......................... .................. 4 units
BIOL 260  Introductory Physiology .................. .................. 5 units
PSYC 100  General Psychology .................. .................. 3 units
PSYC 200  Developmental Psychology .................. .................. 3 units

SOCI 100  Introduction to Sociology .................. OR
ANTH 110  Cultural Anthropology .................. .................. 3 units
SPCH 100  Public Speaking .................. OR
SPCH 120  Interpersonal Communication .................. OR
SPCH 150  Intercultural Communication .................. .................. 3 units
ENGL 100  Composition and Reading .................. .................. 3 units

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Pre-admissions Major requirements 32–39 units

* MATH 120 or MATH 122 and 123... .......... ..........5-6 units

*For those students with catalog rights prior to fall 2009, completion of Math 110 or 111/112 or the equivalent or placement in a math course higher than Math 110/112 on the College of San Mateo Math Placement Test meet this pre-admissions major requirement. Beginning in fall 2009 and thereafter, students must complete Intermediate Algebra, Math 120 or Math 122/123 or the equivalent or placement in a math course higher than Math 120/123 on the College of San Mateo Math Placement Test to meet this admissions and major requirement.

CHEM 410 or 192 or 210... .......... .......... ..........4-5 units
BIOL 240 General Microbiology... .......... .......... ..........4 units
BIOL 250 Anatomy... .......... .......... .......... ..........4 units
BIOL 260 Physiology... .......... .......... .......... .......... ..........5 units
ENGL 100 English Composition... .......... .......... ..........3 units
PSYC 100 General Psychology... .......... .......... ..........3 units
PSYC 200 Developmental Psychology... .......... .......... ..........3 units
SOCI 100 Introduction to Sociology... .......... .......... OR

Other Major requirements once accepted into the program 42-46 units

NURS 211 Introduction to Nursing... .......... ..........4.5 units
NURS 212 Concepts of Homeostasis in Nursing... .......... ..........4.5 units
NURS 215 Nursing Skills Lab I... .......... ..........0.5 unit
NURS 221 Pediatric Nursing... .......... ..........4.5 units
NURS 222 Maternity Nursing... .......... ..........4.5 units
NURS 225 Nursing Skills Lab II... .......... ..........0.5 unit
NURS 231 Psychiatric Nursing... .......... ..........5 units
NURS 232 Medical/Surgical Nursing... .......... ..........5 units
NURS 235 Nursing Skills Lab III... .......... ..........0.5 unit
NURS 241 Advanced Medical/Surgical Nursing... .......... ..........5 units
NURS 242 Leadership/Management in Nursing... .......... ..........5 units
NURS 245 Nursing Skills Lab IV... .......... ..........0.5 units
NURS 808 Open Lab... .......... .......... .......... ..........2-6 units

Requirements for R.N. Licensing Exam:
1. Graduation from high school or equivalent
2. All major requirements listed under pre-admissions and major.
3. If an individual has been convicted of a crime, evidence of rehabilitation will be required before taking the R.N. exam.

PHILOSOPHY

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units
California State University
University of California
Independent Colleges and Universities

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

PHYSICAL EDUCATION

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units
California State University
University of California
Independent Colleges and Universities

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.
PHYSICAL SCIENCE

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Science Degree
Physical Science ................. ................. ................. 60 units

Recommended high school preparation:
Coursework in Mathematics, Chemistry, Physics, English

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Major in Physical Science
Complete General Education and other requirements listed for the Associate degree and

Major requirements: 18 semester units
A grade of "C" or higher is required for each course applied to the major.
Select one or more classes from each group.

Group 1

ASTR 100 Introduction to Astronomy ................. .................
ASTR 101 Astronomy Laboratory ................. ................. 1 unit

Group 2

CHEM 210 General Chemistry I ................. ................. 5 units
CHEM 410 Health Science Chemistry I ................. ................. 4 units

Group 3

GEOL 100 Survey of Geology ................. ................. ................. 3 units
GEOL 210 General Geology ................. ................. ................. 4 units

Group 4

PHYS 100 Descriptive Introduction to Physics ................. 3 units
PHYS 210 General Physics I ................. ................. ................. 4 units
PHYS 250 Physics with Calculus I ................. ................. ................. 4 units

You may complete the required 18 units with courses selected from Groups 1, 2, 3, and 4. However, if you have not completed the required 18 units from these groups you may complete the unit requirement by selecting courses from the following list.

CHEM 231 Organic Chemistry I ................. ................. ................. 5 units
HUM 125 Technology/Contemporary Society ................. ................. 3 units
CIS 255 Programming Methods: Java I ................. ................. 4 units
CIS 278 Programming Methods: C++ ................. ................. 4 units
MATH 251 Calculus w/ Analytical Geometry I ................. ................. 5 units
MATH 252 Calculus w/ Analytical Geometry II ................. ................. 5 units
MATH 253 Calculus w/ Analytical Geometry III ................. ................. 5 units
MATH 275 Ordinary Differential Equations ................. ................. 3 units
METE 100 Elementary Meteorology ................. ................. 3 units
METE 101 Meteorology Laboratory ................. ................. 1 unit
PHYS 250 Physics with Calculus I ................. ................. ................. 4 units
PHYS 260 Physics with Calculus II ................. ................. ................. 4 units
PHYS 270 Physics with Calculus III ................. ................. ................. 4 units

PHYSICS

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

University Transfer Program
60 – 70 transferable units
California State University
University of California
Independent Colleges and Universities

Associate in Science Degree
Physics ................. ................. ................. ................. 60 units

Recommended high school preparation:
Coursework in Mathematics (four years), Physics, Chemistry, English

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.
**Major in Physics**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 18 semester units**

A grade of "C" or higher is required for each course applied to the major.

- PHYS 250  Physics with Calculus I  ...  ..............  4 units
- PHYS 260  Physics with Calculus II  ..................  4 units
- PHYS 270  Physics with Calculus III  ..................  4 units

Plus, 6 units selected from the following courses:

- CHEM 210  General Chemistry I  .............  5 units
- CHEM 220  General Chemistry II .....................  5 units
- CHEM 231  Organic Chemistry I .....................  5 units
- CHEM 232  Organic Chemistry II .....................  5 units
- CIS 255  Programming Methods: Java ..............  4 units
- CIS 278  Programming Methods: C++ ..............  4 units
- MATH 200  Elementary Probability and Statistics ......  4 units
- MATH 251  Calculus with Analytic Geometry I ........  4 units
- MATH 252  Calculus with Analytic Geometry II ........  4 units
- MATH 253  Calculus with Analytic Geometry III ........  4 units
- MATH 270  Linear Algebra  ..............  3 units
- MATH 275  Ordinary Differential Equations .........  3 units

**POLITICAL SCIENCE**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**

60 – 70 transferable units

California State University
University of California
Independent Colleges and Universities

**Recommended high school preparation:**

Coursework in Mathematics, Business, Accounting, English

**Pre-requisite Requirements:**

For licensed Real Estate Agents, R. E. 100 and 105 may be waived as prerequisites for all real estate courses.

**Major in Real Estate**

Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 21 semester units**

A grade of "C" or higher is required for each course applied.

---

**PSYCHOLOGY**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**

60 – 70 transferable units

California State University
University of California
Independent Colleges and Universities

**Recommended high school preparation:**

Coursework in Mathematics, Business, Accounting, English

**Pre-requisite Requirements:**

For licensed Real Estate Agents, R. E. 100 and 105 may be waived as prerequisites for all real estate courses.

**REAL ESTATE**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**Associate in Arts Degree**

Real Estate  ..................  ..............  ..................  60 units

**Certificate of Achievement**

Real Estate  ..................  ..............  ..................  21 units

**Recommended high school preparation:**

Coursework in Mathematics, Business, Accounting, English

**Pre-requisite Requirements:**

For licensed Real Estate Agents, R. E. 100 and 105 may be waived as prerequisites for all real estate courses.

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**College of San Mateo**

Substantive Change Proposal to the ACCJC

January 14, 2010

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to the major.

**BUS 100** Contemporary American Business .......................... OR  
**MGMT 100** Introduction to Business Management ...........3 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.E. 100 Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>R.E. 110 Real Estate Practice</td>
<td>3</td>
</tr>
<tr>
<td>R.E. 121 Legal Aspects of Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>R.E. 131 Real Estate Finance I</td>
<td>3</td>
</tr>
<tr>
<td>R.E. 141 Real Estate Appraisal: Basic</td>
<td>3</td>
</tr>
<tr>
<td>R.E. 200 Real Estate Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Real Estate**  
21 semester units

Complete major requirements listed under Associate in Arts – Major in Real Estate. A grade of “C” or higher is required for each course applied to the certificate.

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**SOCIOLOGY**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**  
60 – 70 transferable units

California State University  
University of California  
Independent Colleges and Universities

---

**SPANISH**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**  
60 – 70 transferable units

California State University  
University of California  
Independent Colleges and Universities
**Associate in Arts Degree**
Spanish ........................................60 units

**Certificate of Specialization**
Spanish ........................................12 units

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**University Transfer Program**
Use Assist (www assistirg.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Spanish**
Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 18 semester units**
A grade of "C" or higher is required for each course applied to the major.

SPAN 110 Elementary Spanish................. 5 units
SPAN 111 Elementary Spanish I............... 3 units
SPAN 112 Elementary Spanish II.............. 3 units
SPAN 115 Beginning Spanish I................ 3 units
SPAN 116 Beginning Spanish II................ 3 units
SPAN 117 Advanced Beginning Spanish I........3 units
SPAN 118 Advanced Beginning Spanish II.......3 units
SPAN 120 Advanced Elementary Spanish........ 5 units
SPAN 121 Advanced Elementary Spanish I....... 3 units
SPAN 122 Advanced Elementary Spanish II......3 units
SPAN 130 Intermediate Spanish............... 5 units
SPAN 131 Intermediate Spanish I............... 3 units
SPAN 132 Intermediate Spanish II............. 3 units
SPAN 133 Intermediate Spanish III............ 3 units
SPAN 134 Intermediate Spanish IV............. 3 units
SPAN 135 Intermediate Spanish V.............. 3 units
SPAN 136 Intermediate Spanish VI............. 3 units
SPAN 137 Intermediate Spanish VII............ 3 units
SPAN 138 Intermediate Spanish VIII........... 3 units
SPAN 139 Intermediate Spanish IX............. 3 units
SPAN 140 Advanced Intermediate Spanish....... 3 units
SPAN 141 Reading in Spanish Literature I...... 3 units
SPAN 142 Reading in Spanish Literature II..... 3 units
SPAN 143 Reading in Spanish Literature III.... 3 units
SPAN 144 Reading in Spanish Literature IV..... 3 units
SPAN 145 Reading in Spanish Literature V...... 3 units
SPAN 146 Reading in Spanish Literature VI..... 3 units
SPAN 147 Reading in Spanish Literature VII.... 3 units
SPAN 148 Reading in Spanish Literature VIII... 3 units
SPAN 149 Reading in Spanish Literature IX..... 3 units
SPAN 150 Reading in Spanish Literature X....... 3 units
SPAN 151 Hispanoamericana Contemporanea..... 3 units

Select at least 5 of the 12 units from the following courses
SPAN 110 Elementary Spanish............... 5 units
SPAN 111 Elementary Spanish I.............. 3 units
SPAN 112 Elementary Spanish II............. 3 units
SPAN 120 Advanced Elementary Spanish........ 5 units
SPAN 121 Advanced Elementary Spanish I....... 3 units
SPAN 122 Advanced Elementary Spanish II...... 3 units
SPAN 130 Intermediate Spanish............... 5 units
SPAN 131 Intermediate Spanish I.............. 3 units
SPAN 132 Intermediate Spanish II............. 3 units
SPAN 140 Advanced Intermediate Spanish....... 3 units
SPAN 161 Reading in Spanish Literature I...... 3 units
SPAN 162 Reading in Spanish Literature II..... 3 units
SPAN 251 Hispanoamericana Contemporanea..... 3 units

The balance of units may be from the following courses:
SPAN 115 Beginning Spanish I................ 3 units
SPAN 116 Beginning Spanish II.............. 3 units
SPAN 117 Advanced Beginning Spanish I........3 units
SPAN 118 Advanced Beginning Spanish II.......3 units
SPAN 801 Conversational Spanish I, Elementary 2 units
SPAN 802 Conversational Spanish II,
Advanced Elementary .................. 2 units
SPAN 803 Conversational Spanish III, Intermediate 2 units
SPAN 804 Conversational Spanish IV,
Advanced Intermediate .................. 2 units

In special circumstances, the Dean of Language Arts may approve the limited use of other courses in the same language (such as those numbered 680 or taken at Skyline or Cañada Colleges). In rare circumstances, the Dean may approve using a course in another discipline if its content is closely related to the language studied.

**SPEECH COMMUNICATION**

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

**University Transfer Program**

**60 – 70 transferable units**
California State University
University of California
Independent Colleges and Universities

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“Pass” or grade of “C” or higher is required for each course applied to the certificate.
Associate in Arts Degree
Speech Communication .......... 60 units

Certificate of Specialization
Speech Communication .......... 12 units

Recommended high school preparation:
Coursework in English, Speech, Psychology

University Transfer Program
Use Assist (www.assist.org) to identify lower division major preparation for the California State University and the University of California systems. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

Major in Speech Communication
Complete General Education and other requirements listed for the Associate degree and

Major requirements: 21 semester units
A grade of "C" or higher is required for each course applied to the major.

Select 15 units from the following courses:
SPCH 100 Public Speaking .......... 3 units
SPCH 111 Oral Interpretation I .......... 3 units
SPCH 112 Oral Interpretation II ........ 3 units
SPCH 120 Interpersonal Communication ........ 3 units
SPCH 140 Small Group Communication ........ 3 units
SPCH 150 Intercultural Communication ........ 3 units
SPCH 180 Family Communication .......... 3 units

Plus, select 6 units from English and/or literature courses.

Speech Communication
12 semester units
A grade of “C” or higher is required for each course applied to the certificate
SPCH 100 Public Speaking .......... 3 units
SPCH 120 Interpersonal Communication ........ 3 units

Plus, select 6 units from the following courses
SPCH 111 Oral Interpretation I .......... 3 units
SPCH 112 Oral Interpretation II ........ 3 units
SPCH 140 Small Group Communication ........ 3 units
SPCH 150 Intercultural Communication ........ 3 units

SPCH 180 Family Communication .......... 3 units

SPRINKLER FITTER

The courses required for this degree are administered by College of San Mateo in conjunction with the Joint Apprenticeship and Training Committee. Registration is limited to those individuals fulfilling the related instruction requirements of the State of California as an indentured apprentice. For additional information contact the Plumbers JATC or the Technology Division Office at 650-574-6177

Associate in Science Degree
Sprinkler Fitter .......... 60 units

Certificate of Achievement
Sprinkler Fitter .......... 30 units

Required high school preparation:
Coursework in Mathematics. At least 18 years of age; High School graduate or GED; one semester of college-level algebra with a grade of “C” or higher.

Major in Sprinkler Fitter
Complete General Education and other requirements listed for the Associate degree and

Major Requirements: 30 semester units
A grade of “C” or higher is required for each course applied to the major.

SPFI 701 Sprinkler Fitter Apprentice I .......... 3 units
SPFI 702 Sprinkler Fitter Apprentice II .......... 3 units
SPFI 703 Sprinkler Fitter Apprentice III ........ 3 units
SPFI 704 Sprinkler Fitter Apprentice IV ........ 3 units
SPFI 705 Sprinkler Fitter Apprentice V ........ 3 units
SPFI 706 Sprinkler Fitter Apprentice VI ........ 3 units
SPFI 707 Sprinkler Fitter Apprentice VII ........ 3 units
SPFI 708 Sprinkler Fitter Apprentice VIII ........ 3 units
SPFI 709 Sprinkler Fitter Apprentice IX ........ 3 units
SPFI 710 Sprinkler Fitter Apprentice X ........ 3 units
Technical Preparation (Tech Prep)

Career opportunities: TECH PREP programs link the last two years of high school and two years of community college study. TECH PREP offers students strong academic courses and career basics within broad career clusters, such as Health Careers or Business. Hands-on technical skills are incorporated into English, mathematics, and other high school subjects. All TECH PREP classes meet high school graduation and community college entrance requirements.

TECH PREP articulation agreements have been approved by local high schools, the San Mateo County Regional Occupational Program (ROP), Opportunities Industrialization Center West (OICW), and College of San Mateo in the following occupational areas: Accounting, Business Information Processing, Computer Information Science, Drafting Technology, Electronics Technology, and Manufacturing Technology. Other approved articulation agreements exist at Canada College and Skyline College.

The number of college units students may earn through these Tech Prep articulation agreements varies according to the specific occupational program.

TECH PREP instructors and counselors believe that every student can learn the skills required for success in a competitive world. High school and community college staff work together to help students learn academic and applied skills in real-world ways. They find mentors and internships for students’ on-the-job learning in what they are being taught on campus. They help students locate and secure career jobs.

TECH PREP students master the skills necessary for success in college and in high-skill, high wage careers. They learn how to develop good work habits, how to work on teams, and how to be effective in real work settings. They visit and work at local companies. Some enter career employment after completing community college study; others transfer to four-year colleges and universities. Many work at good jobs while continuing their education.

TECH PREP employers tell schools and colleges what jobs are available and what skills these jobs require. They help students learn these skills on campus and in the workplace. They mentor students, coaching and encouraging them for success and to remain in college. They provide internships and other training experiences while students are in school and hire TECH PREP graduates into entry-level jobs with real futures.

TECH PREP communities have well-educated workforces, high employment rates, and strong local economies. Their young people find good jobs after high school and move easily into advanced college courses because of the skills they learned as teenagers. Relocating companies are attracted by the good schools and colleges in these communities and are impressed by the skills of local workers.

UNIVERSITY TRANSFER

Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).

California State University
University of California
Independent Colleges and Universities

Certificate of Achievement

University Transfer with three options:
Option 1: California State University General Education Certification (CSU/GE).......... 39 units
Option 2: Intersegmental General Education Transfer Curriculum Certification CSU (IGETC/CSU) 37 units
Option 3: Intersegmental General Education Transfer Curriculum Certification for UC (IGETC/UC) 34--39 units

For all options, find courses approved to meet university transfer general education requirements at www.assist.org and search under College of San Mateo.

University Transfer Option 1: California State University General Education Certification (CSUGE)

Complete 39 units of coursework to meet California State University General Education Certification requirements as listed below.

Complete 9 units of Area A: Communications in the English Language and Critical Thinking. Courses in Area A must be completed with a grade of “C” or higher. Select a course from each area below.
A1: Oral Communication ......................... 3 units
A2: Written Composition ......................... 3 units
A3: Critical Thinking ......................... 3 units

Complete 9 units of Area B:
Physical Universe and Its Life Forms. The course used to meet Area B4 must be completed with a grade of “C” or higher. One of the courses selected to meet Area B1 or Area B2 must be a lab course or have a lab component to meet the B3 lab requirement. Select a course from each area below.

B1: Physical Science ......................... 3 units
B2: Life Science ......................... 3 units
B3: Lab Course (the course selected to meet either B1 or B2 must be a lab course or have a lab component to meet the B3 requirement) BIOL 260 only
B4: Math Concepts/Quantitative Reasoning ................... 3 units

Complete 9 units of Area C:
Arts, Literature, Philosophy and Foreign Language. At least one course must be selected from Arts and one course from Humanities. The third course can be selected from either Arts or Humanities.

C1: Arts ................... 3 units
C2: Humanities ................... 3 units
C1 or C2 ................... 3 units

Complete 9 units of Area D:
Social, Political and Economic Institutions. Must complete coursework in at least two disciplines. Courses selected to meet Area D may also be used to meet a CSU graduation requirement in US History, US Constitutions, and California State and Local Government (referred to as AH&I/CA State). (CSU Chico does not allow double counting of courses in Area D to meet AH&I/CA State.)

Area D: ................... 9 units

Complete 3 units in Area E:
Lifelong Understanding and Self Development.

Area E: ................... 3 units

University Transfer Option 2: Intersegmental General Education Transfer Curriculum Certification for CSU (IGETC/CSU)
Complete 37 units of coursework to meet the IGETC/CSU Certification requirements as listed below.
All courses must be completed with a grade of “C” or higher.

Complete 9 units in Area 1: English Communication
Area 1A: English Composition ................... 3 units
Area 1B: Critical Thinking ................... 3 units

Complete 3 units in Area 2:
Mathematical Concepts and Quantitative Reasoning.
Area 2: ................... 3 units

Complete 9 units in Area 3:
Arts and Humanities. At least one course must be selected from Arts and one course from Humanities. The third course can be selected from either Arts or Humanities.
Area 3A: Arts ................... 3 units
Area 3B: Humanities ................... 3 units
Area 3A or 3 B: ................... 3 units

Complete 9 units in Area 4:
Social and Behavioral Sciences. Must complete coursework in at least two disciplines.
Area 4: ................... 9 units

Complete 7 units in Area 5:
Physical and Biological Sciences. At least one course must include a laboratory component. BIOL 260 only
Area 5A: Physical Science ................... 3-4 units
Area 5B: Biological Science ................... 3-4 units

University Transfer Options 3: Intersegmental General Education Transfer Curriculum Certification for UC (IGETC/UC)
Complete 34 - 39 units of coursework to meet the IGETC/UC Certification requirements as listed below.
All courses must be completed with a grade of “C” or higher.

Complete 6 units in Area 1: English Communication
Area 1A: English Composition ................... 3 units
Area 1B: Critical Thinking ................... 3 units

Complete 3 units in Area 2:
Mathematical Concepts and Quantitative Reasoning.
Area 2: ................... 3 units

Complete 9 units in Area 3:
Arts and Humanities. At least one course must be selected from Arts and one course from Humanities. The third course can be selected from either Arts or Humanities.
Area 3A: Arts ................... 3 units
Area 3B: Humanities ................... 3 units
Area 3A or 3 B: ................... 3 units

Complete 9 units in Area 4:
Social and Behavioral Sciences. Must complete coursework in at least two disciplines.

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Complete 7 units in Area 5:
Physical and Biological Sciences. At least one course must include a laboratory component. **Biol 260 only**

**Area 5A: Physical Science** 3-4 units
**Area 5B: Biological Science** 3-4 units

Language other than English - Area 6:
This area is a proficiency requirement that can be fulfilled through a number of options. Verification for any of the options listed on page 49 is required to complete certification.

**WELDING TECHNOLOGY**

*Meet with a CSM counselor to discuss how to achieve academic goals and to develop a comprehensive student educational plan (SEP).*

**University Transfer Program**
**60 – 70 transferable units**
California State University
University of California
Independent Colleges and Universities

Associate in Science Degree
Welding Technology ........... 60 units

**Certificate of Achievement**
Welding Technology: Welding Technician ... 50 units
Welding Technology: General Welder ........... 29 units

Recommended high school preparation:
Coursework in Mathematics, Physics, Mechanical Drawing, Drafting

**University Transfer Program**
Use Assist ([www.assist.org](http://www.assist.org)) to identify lower division major preparation for the California State University and the University of California systems. Transfer majors may be listed as Welding Technology, Industrial Technology or other listings. For independent or out-of-state colleges and universities use their catalogs to locate this information. Transfer Services can assist you to gather this information.

**Major in Welding Technology**
Complete General Education and other requirements listed for the Associate degree and

**Major requirements: 50 semester units**
A grade of "C" or higher is required for each course applied to the major.

- WELD 110  Elementary Welding Theory I .......... 4 units
- WELD 111  Elementary Welding Practice I ............ 3 units
- WELD 120  Elementary Welding Theory II .......... 4 units
- WELD 121  Elementary Welding Practice II .......... 3 units
- WELD 210  Advanced Welding Theory I .......... 4 units
- WELD 211  Advanced Welding Practice I .......... 5 units
- WELD 220  Advanced Welding Theory II .......... 4 units
- WELD 221  Advanced Welding Practice II .......... 5 units
- WELD 250  Fundamentals of Non-Destructive Testing ..... 2 units
- DRAF 120  Principles of Technical Drawing .......... 3 units
- ELEC 110  Introduction to Fundamentals of Electronics .......... 3 units
- MATH 110 (or higher level math)  Elementary Algebra 5 units

MTT. 200  Machine Tool Technology ............... 2 units
PHYS 100  Descriptive Introduction to Physics .......... OR
MANU 100  Science for Technology .. .......... 3 units

**Welding Technology: Welding Technician**
**50 semester units.**
Complete major requirements listed under Associate in Science – Major in Welding Technology. A grade of “C” or higher is required for each course applied to the certificate.

**Welding Technology: General Welder**
**29 semester units**
A grade of "C" or higher is required for each course applied to the certificate.

- WELD 110  Elementary Welding Theory I .......... 4 units
- WELD 111  Elementary Welding Practice I ............ 3 units
- WELD 120  Elementary Welding Theory II .......... 4 units
- WELD 121  Elementary Welding Practice II .......... 3 units
- WELD 250  Fundamentals of Non-Destructive Testing ..... 2 units
- DRAF 120  Principles of Technical Drawing .......... 3 units
- MATH 110 (or higher level math)  Elementary Algebra 5 units

MTT. 200  Machine Tool Technology ............... 2 units
PHYS 100  Descriptive Introduction to Physics .......... OR
MANU 100  Science for Technology .. .......... 3 units