

**SAN DIEGO**

**MESA**

**COLLEGE**

**2012-2013 CATALOG**

Fall 2012, Spring 2013, Summer 2013

7250 Mesa College Drive  
San Diego, California 92111-4998  
619-388-2600  
[www.sdmesa.edu](http://www.sdmesa.edu)  
Pamela T. Luster, Ed.D., President

San Diego Mesa College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, 10 Commercial Blvd., Ste. 204, Novato, CA 94949, 415-506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.



## President's Message

The faculty, administrators and staff join me in welcoming you to San Diego Mesa College. As one of the largest and most successful of California's 112 community colleges, Mesa College takes pride in its high academic standards, its excellent programs and services, and its personal approach to helping each individual student succeed.

At Mesa College, students will find a wide and diverse array of day, evening, weekend, and online courses leading to 194 Associate in Arts, Associate in Science degrees and certificate programs. Students may also pursue courses and programs of general interest.

Because of the college's comprehensive offerings, excellent programs, uniquely talented faculty and support services, Mesa College enjoys one of the highest student transfer rates in California and the nation.

Mesa students who plan to transfer to four-year colleges and universities enjoy a great advantage because of our carefully designed and articulated course of study culminating in an Associate Degree with a designated area of emphasis that reflects the student's ultimate transfer or career focus. In addition, Mesa continually maintains and updates guaranteed transfer agreements with colleges and universities in California and throughout the nation.

Students following the occupational track have similar success when they enter or advance through the job market. Unique partnerships with local industries have created pathways for upward mobility and success in high-demand occupations.

Mesa College provides extensive collegiate and co-curricular experiences for students, including such opportunities as student government; 20 men's and women's intercollegiate athletic teams; over 30 clubs; performance groups; an Honors Program; Service Learning and a host of activities in which students learn leadership skills, expand their academic horizons and celebrate cultural diversity.

As you read through this catalog, you will also find complete information about the college's programs, courses, requirements and policies. You will find information about the college's other services for students: counseling, library and media services, tutorial services, child care, financial aid, health services and special services for students with disabilities, just to name a few. The college counselors will answer any questions you may have about programs and services and will assist you in making your educational plans. To contact a counselor, call 619-388-2672.

Once again, welcome to San Diego Mesa College. I fully expect that you will find not just a great college but a "Community of Learners." We are dedicated to making your Mesa College experience a memorable and rewarding one, and to help you have a productive and enjoyable experience in realizing your educational goals.

*Pamela T. Luster*

Pamela T. Luster, Ed.D.

President

## The San Diego Community College District

The San Diego Community College District is charged with educating all adults 18 years of age and older in the City of San Diego. The District provides education at several levels, from adult basic education through sophomore level college degree programs. The District has three fully accredited colleges, City, Mesa, and Miramar. The District also has a separately accredited noncredit Continuing Education Program. The District is governed by a Board of Trustees consisting of five voting members elected by the people of San Diego and a student trustee elected by District college students. The Chancellor is the Chief Executive Officer in charge of day to day operations.

## Board of Trustees

**Rich Grosch**  
President

**Peter Zschiesche**  
Executive Vice President

**Mary Graham**  
Vice President for Instructional Development

**Bill Schwandt**  
Vice President for Educational Collaboration

**Maria Nieto Senour, Ph.D.**  
Vice President for Institutional Effectiveness

### Student Members 2012-2013

Danielle Coulter  
Cherie Deogracias  
Victor P. Bohm

City College  
Mesa College  
Miramar College

**Chancellor**  
Constance M. Carroll, Ph.D.



San Diego Community College District Board of Trustees  
(from left, back row) Peter Zschiesche, Rich Grosch, and Mary Graham,  
(front row) Maria Nieto Senour, Chancellor Constance M. Carroll, and Bill Schwandt.

## District Administration

**Constance M. Carroll, Ph.D.**

Chancellor

**Bonnie Dowd, Ed.D.**

Executive Vice Chancellor, Business Services

**Otto Lee, Ed.D.**

Vice Chancellor, Instructional Services

**Will Surbrook**

Vice Chancellor, Human Resources

**Lynn Ceresino Neault**

Vice Chancellor, Student Services

**David Umstot**

Vice Chancellor, Facilities Management

**Richard Dittbenner, J.D.**

Director, Public Information and Government Relations

**Margaret Lamb**

Executive Assistant to the Chancellor

## San Diego Mesa College Administrative and Supervisory Personnel

President..... Pamela T. Luster, E.d.D.  
619-388-2721, Room A-104

Vice President, Administrative Services ..... Ron Perez  
619-388-2746, Room A-102

Vice President, Instruction ..... Tim McGrath, J.D.  
619-388-2755, Room A-103

Interim Vice President,  
Student Services ..... Brian Stockert  
619-388-2678, A-103

Admissions & Records Director ..... Ivonne Alvarez  
619-388-2682, MV-11

Articulation Officer ..... Juliette Parker  
619-388-2639, Room A-110

Dean, School of Arts  
and Languages..... Jonathan Fohrman  
619-388-2873, Room G-201

Dean, School of Business, Computer Studies/  
Technology and Economic  
Development..... Jill Baker, Ed.D.  
619-388-2803, Room J-106

Dean, School of Health Sciences/  
Public Service..... Margie Fritch  
619-388-2789, Room J-107

Interim Dean, School of  
Humanities ..... Chris Sullivan, Ed.D.  
619-388-2797, Room G-106

Dean, School of Learning Resources  
and Education Technology ..... William Craft  
619-388-2799, Room LRC-434

Dean, School of Math  
& Natural Science. .... Saeid Eidgahy, Ph.D.  
619-388-2795, Room J-107

Dean, School of P.E./Health Ed. &  
Athletics..... Dave Evans  
619-388-2737, Room L-101

Dean, School of Social & Behavioral Sciences/  
Multicultural Studies ..... Charles Zappia, Ph.D.  
619-388-2801, Room A-111

Dean, Instructional Services, Resource  
Development and Research..... Vacant  
619-388-2509, Room A-109

Dean, Student Affairs ..... Ashanti Hands  
619-388-2699, Room H-500

Dean, Student Development/  
Matriculation..... Joi Lin Blake, Ed.D.  
619-388-2896, MV-22

Associate Dean, Student Support  
Services ..... Vacant  
DSPS, 619-388-2780, Room 13-101  
EOPS, 619-388-2706, Room 13-101

Financial Aid Officer ..... Gilda Maldonado  
619-388-2817, Room I3-100

Transfer and Career Center  
Supervisor..... Monica Romero  
619-388-2473, MV-20

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# Academic Calendar 2012-2013

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## Fall Semester 2011

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16-WEEK SEMESTER: Fall Classes ..... August 22, 2011–December 17, 2011

### SPECIAL DATES

June 23, 2011 .....	Final day to file an application for admission for the Fall semester and receive an appointment to register online. Applications filed after this date will be assigned a registration appointment at the time of application.
August 1, 2011 .....	Deadline to file an application for admission and receive a registration appointment for Fall.
August 21, 2011 .....	RESIDENCE DETERMINATION DATE (APPLIES TO ALL SESSIONS)
September 16, 2011 .....	Constitution Day (Classes are in session)
October 31, 2011 .....	Last day to file a petition for graduation for an Associate Degree or Certificate of Achievement for Spring or Summer 2012 completion in order to receive an evaluation prior to the beginning of the Spring semester.
November 11, 2011 .....	Holiday—Veterans Day**
November 15, 2011 .....	Last day to file a petition for graduation for an Associate Degree or Certificate of Achievement for Fall 2011 completion.
November 21-23, 2011 .....	Classes not in session--campus closed.
November 24 & 25, 2011 .....	Holiday—Thanksgiving**
December 19, 2011–January 21, 2012.....	Winter Recess

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## Spring Semester 2012

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16-WEEK SEMESTER: Spring Classes ..... January 23, 2012–May 19, 2012

### SPECIAL DATES

TBD .....	Final day to file an application for admission for Spring semester and receive an appointment to register online. Applications filed after this date will be assigned a registration appointment at the time of application.
TBD .....	Deadline to file an application for admission and receive a registration appointment for Spring.
January 22, 2012.....	RESIDENCE DETERMINATION DATE (APPLIES TO ALL SESSIONS)
February 17, 2012.....	Holiday—Lincoln's Day**
February 20, 2012.....	Holiday—Washington's Day**
March 31, 2012.....	Last day to file a petition for graduation for an Associate Degree or Certificate of Achievement for Spring 2012 completion.
April 2-5, 2012.....	Spring Recess--campus closed.
April 6, 2012.....	Holiday—Cesar Chavez Day**
May 28, 2012 .....	Holiday—Memorial Day**

\*\* No Saturday or Sunday classes after a Friday holiday. No Sunday classes before a Monday holiday.

Note: Holidays apply to all sessions.

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## Summer Session 2012

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Summer Classes: ..... May 29, 2012–August 11, 2012

### SPECIAL DATES

May 28, 2012 ..... RESIDENCE DETERMINATION DATE (APPLIES TO ALL SESSIONS)

July 4, 2012 ..... Holiday—Independence Day\*\*

July 31, 2012..... Last day to file a petition for graduation for an Associate Degree or Certificate of Achievement for Summer 2012 completion.

\*\* No Saturday or Sunday classes after a Friday holiday. No Sunday classes before a Monday holiday.





# General Information



# History

San Diego City College, San Diego Mesa College and San Diego Miramar College are public two-year community colleges administered by the San Diego Community College District. Also under the auspices of this district are the Continuing Education division with six major centers throughout San Diego, and the Educational Cultural Complex which offers both college and continuing education courses. These educational programs carry out the charge made by the voters of San Diego in 1972, that the San Diego Community College District provide education for all high school graduates and adults 18 years of age and older in the district. This charge includes providing adult basic education through sophomore-level college degree programs, with both academic and vocational curricula.

Community college education in San Diego can be traced to 1914 when the Board of Education of the San Diego City Schools authorized postsecondary classes for the youth of San Diego. Classes opened that fall at San Diego High School with four faculty members and 35 students.

City College was first established in 1916 and was located at San Diego High School. For 25 years the Junior College program was located at San Diego State University. In 1938, the San Diego Vocational Junior College was established to offer training in technical-vocational skills to post high school students. The following year the San Diego Evening Junior college was set up to provide college classes in the evening for adults unable to attend day classes.

In 1964, San Diego Mesa College was opened to 1,800 students. Five years later, in 1969, San Diego Miramar College opened on 140 acres in what was then undeveloped land north of the Miramar Naval Air Station, now known as Mira Mesa. Unlike City and Mesa Colleges which offered a range of general education classes, Miramar College began by concentrating on law enforcement and fire science training. It has since broadened its curriculum to include the general education college courses needed by students in the rapidly growing northern area of the city.

In November 1972, the voters approved separating the San Diego Community College District from the San Diego Unified School District. The first election of community college district trustees was held in November 1973. The year 1976 brought the opening

of a unique district campus, the Educational Cultural Complex, dedicated to offering both college and continuing education classes to the multicultural population surrounding its Ocean View Boulevard site. In 1979-80 the administration of the Evening College program was merged with those of the day college programs at San Diego City, San Diego Mesa, and San Diego Miramar Colleges.

With both college and continuing education programs, the San Diego Community College District is the second largest community college district in California and offers a choice of educational programs unparalleled in the region.

## Statement of Philosophy

The general education program at the colleges in the San Diego Community College District is designed to broaden students' knowledge and their understanding of methods of gaining knowledge in a variety of disciplines and to develop students' abilities in critical thinking, in oral and written communication, and in mathematics.

The awarding of an Associate Degree symbolizes the intent of the college to lead students through patterns of learning experiences designed to develop an awareness of other cultures and times; to achieve insights gained through experience in thinking about ethical problems; and to develop the capacity for self-understanding. In addition to these accomplishments, students should possess sufficient depth in some field of knowledge to contribute to lifetime interest.

## Student Learning Outcomes

Mesa College has adopted the following Student Learning outcomes for the Associate Degree.

**Critical Thinking:** Ability to analyze problems, conceptualize theses, develop arguments, weigh evidence, and derive conclusions. This outcome includes both inductive and deductive logical reasoning and methodological processes.

**Communication:** Ability to articulate the critical thinking outcomes in writing and/or speaking or by other modes of communication.

**Self-awareness and Interpersonal Skills:** Ability to analyze one's own actions, to see the perspective of other persons, and to work effectively with others in groups.

**Personal Actions and Civic Responsibility:** Ability to understand one's role in society, take responsibility for one's own actions, make ethical decisions in complex situations, and participate actively in a diverse democracy.

**Global Awareness:** Ability to articulate similarities and contrasts among cultures, times and environments, demonstrating understanding of cultural pluralism and knowledge of global issues.

**Technological Awareness:** Ability to understand the applications and implications of technology and to use technology in ways appropriate to the situation. This outcome includes information competency skills.

## Vision, Mission Statement, Values and Goals

### Vision

#### What we strive to be

San Diego Mesa College shall be a key force in our community to educate students to shape the future.

### Mission

#### Why we exist

To inspire and enable student success in an environment that is strengthened by diversity, is responsive to our communities, and fosters scholarship, leadership, and responsibility.

### Values

#### What we believe in

- Access
- Accountability
- Diversity

- Equity
- Excellence
- Freedom of Expression
- Integrity
- Respect
- Scholarship
- Sustainability

## Performance Indicators

### How we assess effectiveness

Equity/Access, Engagement/Retention, Persistence, Success, Institutional Effectiveness

### Goals

1. To deliver and support exemplary teaching and learning in the areas of transfer education, associate degrees, career and technical education, certificates, and basic skills.
2. To provide a learning environment that maximizes student access and success, and employee well-being.
3. To respond to and meet community needs for economic and workforce development.
4. To cultivate an environment that embraces and is enhanced by diversity.

## Accreditation

San Diego Mesa College is accredited by the Western Association of Schools and Colleges and approved by the California State Department of Education. In addition, certain programs at Mesa College hold special accreditation:

Animal Health Technology—California Department of Consumer Affairs, Veterinary Medical Board

Dental Assisting—American Dental Association Commission on Dental Accreditation

Health Information Technology—Commission on Accreditation of Health Informatics and Information Management

Physical Therapist Assistant—Commission on Accreditation in Physical Therapy Education (American Physical Therapy Association)

Radiologic Technology—Joint Review Committee on Education in Radiologic Technology

Mesa College is approved by the Office of Private Postsecondary Education for the training of veterans as well as by the U. S. Department of State and the U.S. Immigration Services for international student education. Courses paralleling university level work are accepted by the University of California, the California State Universities, and by other universities and colleges.

Persons interested in the institution's accreditation and program approvals may review documents describing these activities in the President's Office. These documents will be available for such review at a mutually convenient time during regular business hours, and an appropriate interpretation of their contents will be provided if requested.

## Mesa Catalog Committee

### Purpose

A sub-committee of the San Diego Mesa College Curriculum Review Committee, the Catalog Sub-Committee recognizes the catalog as a legal document which provides students, faculty, staff and other educational institutions information regarding academic policies, degree and certificate programs, course offerings, curricula for transfer to baccalaureate institutions, and student services. The primary purpose of the committee is to coordinate the yearly update of the college catalog and to ensure that the contents are accurate, clear and useful. It is preferred that the members of the committee possess curriculum committee experience.

The following are the specific duties of the committee:

- Coordinate the review of assigned catalog sections (i.e. – General Information, Student Services, Academic Information and Regulations, Transfer Guide).
- Serve as a liaison between the reviewers assigned to the primary sections and the catalog committee co-chairs.
- Serve as a liaison to Mesa Deans and Department Chairs in Instruction and Student Services.
- Serve as a liaison to District Instructional and Student Services.

- Ensure that catalog update/revision deadlines are met.
- Ensure that curriculum policies and procedures are followed.
- Consult with appropriate individual(s) when specific information is required relative to the catalog.

### Catalog Committee Members

#### Co-chairs:

**Yvonne Bergland**, Dean, Instructional Services,  
Resource Development and Research  
**Juliette Parker**, Articulation Officer

#### Administrative:

**Tim McGrath**, Vice President of Instruction

#### Faculty:

**Michelle (Toni) Parsons**, Curriculum Review  
Committee Co-Chair  
**Kai Wong**, Professor of Physics  
**Leroy Johnson**, Counselor

#### Classified:

**Arlis Svedberg**, Administrative Technician  
**Ria Phillip**, Instructional Assistant  
**Jane Ponce**, President's Office  
**Trina Larson**, Vice President of Student Services'  
Office

#### District Liaison:

**Shelly Hess**, Dean of Curriculum and  
Instructional Services

#### Ex Officio:

**Jeff Mills**, Systems Support Analyst, District  
Instructional Services  
**Nazhat Yousif**, District Student Services

#### Student:

**Shawn Carvajal**, Associated Student  
Government Representative

### Disclaimer

While every reasonable effort has been made to ensure that statements in this catalog are accurate, it must be understood that the information contained herein is subject to change or elimination without notice by the administration of the San Diego Community College District. Students should consult the appropriate campus or department for current information, as well as for any special rules or requirements imposed.

# Admissions and Registration



*We are Mesa...  
student access and success*

# The College Matriculation Program

## Steps to Student Success

The college matriculation program is designed to help students succeed in their academic program. To “matriculate” means to enroll and to commit oneself to an educational goal. The matriculation process requires a commitment on the part of the college as well as the student.

**The steps in the matriculation process are:**

### Step 1 - Admission

### Step 2 - Assessment

### Step 3 - Orientation

### Step 4 - Educational planning with a counselor

### Step 5 - Follow-up of student progress

The matriculation program has been designed especially for students who intend to earn a certificate or degree at the college or to transfer to a four-year college or university. However, the services are available to all students admitted to the college. All students are encouraged to participate in the various components of the matriculation program.

## 1. Admission

Admission is open to anyone who meets one of the following criteria:

- Persons who possess a high school diploma or California high school proficiency exam certification or GED with an average score of 45 or higher.
- Persons 18 years of age or older or emancipated minors who do not possess a high school diploma or equivalent may be admitted by the college under provisional admission status.
- High school students requesting concurrent enrollment may be admitted as “special part-time” students subject to the following criteria:
  - a. Students must have completed the 10th grade.
  - b. Enrollment may be limited due to budget reductions and extraordinary demand.

- c. High school students must satisfy course prerequisites and eligibility requirements.
- d. Enrollment in Physical Education classes will not be permitted.
- e. The course is advanced scholastic or technical (college degree applicable).
- f. The course is not available at the school of attendance.
- g. Students will be given college credit for all courses. Grades will be part of the student’s permanent college record.
- h. Students must maintain a 2.0 grade point average each semester in all college work.
- i. If the number of units of W, I and NP exceed 40%, in any semester or session, the student will be academically disqualified. Students whose grade point average falls below a 2.0, or who do not complete 60% of all units attempted, will not be permitted to re-enroll without approval from a college counselor.

- Persons who are under 18 years of age who do not have a high school diploma and are not enrolled in a high school may be admitted as a special full-time student pursuant to Education Code §48800.5 subject to approval of the high school governing board and the college President where the student is planning to attend. Special full-time students will be admitted under provisional admission status.
- Persons who do not meet one of the admission criteria stated above will not be admitted under any circumstances.

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**All new students must file an application for admission. Students who have previously attended, but have not been in continuous attendance for one year must file a new application for admission.**

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### Apply Online

Applications for admission to San Diego City, Mesa and Miramar Colleges are available online. Students access the online application at: <http://studentweb.sdccd.edu>.

### Important Reminder

Every male citizen of the U. S. and male immigrant residing in the U. S., ages 18 through 25, must register with the Selective Service.

## 2. Assessment

Assessment is a tool used to assist students in selecting courses best suited to their abilities and educational goals. Specifically, assessments help students identify their skill levels in English and mathematics, and ESOL .

Assessment is a process that includes tests and other measures and is intended to assist students in meeting course prerequisites. Students may also meet course prerequisites based on other factors such as past educational achievements in mathematics or English or course completion, and other standardized tests.

In order to ensure proper course selection, all new students should go through assessment and orientation unless they already possess an associate degree or higher.

### Assessment-Placement Alternative Measures

The San Diego Community College district accepts select standardized test as an alternative measure for assessment skill levels. Students should bring or send official copies of their SAT, ACT, EAP, EPT and/ or ELM report directly to District Student Services to determine readiness for English 101 or 105 and for courses with a Math 096 prerequisite. **All tests must have been completed within the past 2 years.**

Test	Minimum Score Required
SAT - ENGL	500
SAT - MATH	560
ACT - ENGL	22
ACT - MATH	23
EPT -	151
ELM -	50

EAP - *Ready for CSU College-Level English/Math Course*

Testing accommodations are available to students with disabilities. For assistance contact the Disability Support Programs and Services (DSPS) office on campus.

## 3. Orientation

The orientation provides important information to students about the programs and services available at the college as well as strategies for student success. Orientation includes assessment and program planning. Matriculating students who have

been admitted to the college are expected to attend an assessment/orientation session before registering for classes.

For additional information call or stop by the Testing Office on campus.

### Student Learning Outcomes

The Assessment and Orientation faculty and staff have identified the following Student Learning Outcomes for the various services available in the Assessment Office:

- Students will identify the appropriate English and math courses in which to begin college studies
- Students will produce a first semester educational plan based on identified goals, skills and resources.
- Students will be able to identify, at least, three college resources available to help achieve identified goals.

## 4. Educational Planning with a Counselor

The Student Education Plan (SEP) is an important tool to assist students in successfully attaining their goals without wasted time and effort. Counseling and career planning services are available to help students make informed choices concerning the programs and courses available.

The Student Education Plan (SEP) is an agreement which contains the official requirements for graduation and/or transfer. **All transcripts of prior college work must be on file and evaluated before an official education plan can be prepared.** See the Graduation section on page 96 for graduation filing requirements.

A SEP typically lays out a program of study for a four or six semester period. These plans allow students to determine how long it will take to complete a program of study and to be sure that all program requirements can be met within a particular period of time. Education plans may be changed. The student should review plans periodically with a counselor. They are revised as a student's goals or objectives change.

Assessment of interests and aptitudes is also available to those students who want more information or assistance in order to choose the "right" programs or courses.

## 5. Follow-up on Student Progress

Follow-up services are available to all students as part of the college's commitment to student success. These services include a periodic review of student progress and education plans to assist students in reaching their educational goal. Students who need additional support services will be referred to those services.

### Exemptions

Students who meet the following criteria are exempt from components of the matriculation process:

#### 1. Admission

- No exemptions

#### 2. Assessment

- Students with the following educational goals:
  - preparation for a new career, advancement in their current job/career, maintenance of a certificate or license, educational development, or completion of credits for high school diploma
  - Students enrolled in an apprenticeship Program
  - Students who have an associate degree or higher
  - Students concurrently enrolled at a four-year college
  - Students who have taken the placement tests within the last three years

#### 3. Orientation

- Students with the following educational goals:
  - preparation for a new career, advancement in their current job/career, maintenance of a certificate or license, educational development, or completion of credits for high school diploma
  - Students enrolled in an apprenticeship Program
  - Students who have an associate degree or higher
  - Students concurrently enrolled at a four-year college or university

## 4. Educational Planning With a Counselor

- Students with the following educational goals:
  - preparation for a new career, advancement in their current job/career, maintenance of a certificate or license, educational development, or completion of credits for high school diploma
  - Students enrolled in an apprenticeship Program
  - Students who have an associate degree or higher
  - Students concurrently enrolled at a four-year college
  - Students who have taken the placement tests in the last three years

## 5. Follow-up on Student Progress

- No exemptions

# Registration

With the exception of Special-Admit High School students, all students receive an appointment to register online using Reg-e. Special-Admit High School students must enroll in person at the time of their registration appointment.

A student can enroll in any available course offered at ECC, City, Mesa, or Miramar Colleges by using the combined schedule of classes and Reg-e. The class schedule is also available on the web at: [www.sdccd.edu/schedule](http://www.sdccd.edu/schedule)

Reg-e is easy to use. Instructions for using Reg-e are on the registration site.

### The following information and services are available through Reg-e:

- registration
- a record of the student's class schedule, fees, and payment deadlines
- cancellation of registration
- adding and dropping classes
- academic deadlines and calendar
- grade information
- academic history



- purchase of parking permits
- purchase of an Associated Students college membership

## Online Registration (Reg-e)

Students can register for classes using Reg-e, the San Diego Community College District's online registration system. Students can visit the Student Web Services at: <http://studentweb.sdccd.edu> and click on the Reg-e icon. Full instructions will lead students through the process.

## Responsibility for Maintaining Accurate Registration

It is the student's obligation to add, drop, or withdraw from classes before the deadlines stated in the class schedule. This applies even if the student has never attended class. Any student who anticipates difficulty in paying fees should check with the Financial Aid Office about eligibility and sources of assistance. Registration will be canceled for nonpayment of fees.

## Time/Schedule Conflicts

- Students may not register for classes with times that overlap (includes 10 minute passing period).
- Students may not enroll in two classes of the same subject and course number if the start and/or end date of one class, overlaps with the other class.

## Class Schedules on Internet

Up-to-date class schedule information and course descriptions for each campus is available online at [www.sdccd.edu/schedule](http://www.sdccd.edu/schedule). This web site displays new classes, cancellations, and changes after the printed schedule has been distributed. A search engine allows students to search for classes by academic subject, by time and day, or by key words.

## Wait List

Students who attempt to register in a class that is closed may select the option to have his/her name placed on a Wait List.

**IMPORTANT NOTE:** Wait Listing is not a guaranteed priority for enrollment.

### Criteria:

- Students may place their name on only one Wait List for a specific subject and course number.
- Students must meet course prerequisites to be placed on the Wait List.
- Students who are on a Wait List and later enroll in another section of the same subject and course number will be automatically removed from the Wait List.
- Students will be shown their priority number on the Wait List.
- Students can check their priority number on Reg-e.
- Students have the option to remove themselves from the Wait List at any time.
- There is a limit to the number of students allowed on each Wait List.
- Wait listed students will be given first priority to add their waitlisted class if a space becomes available before the semester begins.
- The college will attempt to notify students that a space is available via e-mail and telephone according to their priority number; however, it is the students' responsibility to check the status of their waitlisted classes on Reg-e daily.
- Upon notification, students will be given five (5) business days, including the day of notification, to add the wait listed class. (An add code is not required.)
- If students do not add their wait listed class within the 5-day period, they will be removed from the Wait List and lose their priority.
- It is the student's responsibility to check his/her e-mail and/or Reg-e daily for the status of their wait listed class(es).
- Students remaining on the Wait List after classes begin, **MUST** attend the first class meeting (and be on time) to have their Wait List priority considered.

**Note:** Students who are waitlisted in a lecture & lab concurrently (Ex: CHEM 152 & 152L) will not be allowed to enroll in the lab class until they are enrolled in the lecture (Ex: CHEM 152), even if a space becomes available in the lab before the lecture. Additionally, if the wait list availability

expires for the lab before the lecture is open, the student's name will be removed from the wait list for the lab class.

Students enrolled in SDCCD Online courses must contact the instructor on the first day of class via e-mail if they wish to have their Wait List priority considered.

## Adding Classes

Students may add classes online until the deadline date published in the schedule of classes. Students will not be allowed to add classes beyond the published deadline.

To add a class once the semester has begun, students must obtain an add code from the instructor, then must process and pay for the added class through Reg-e. A student may also pay at the Accounting Office, MV-17.

Students are not officially enrolled until the add code is processed through Reg-e and fees are paid in full. Add codes for Special-Admit part-time high school and Joint Diploma students must be processed in person in the college Admissions Office prior to the add deadline.

If an instructor finds that a student has given his or her add code to another student, the instructor should administratively drop the student who was not issued the add code.

## Drop/Withdrawal from Classes

Students may drop or withdraw from classes online until the published deadline dates. Deadline dates are available in the Admissions Office or in the online schedule of classes at: <http://schedule.sdccd.edu> and by clicking on the "details" box next to the class they are interested in viewing.

- It is the student's responsibility to drop all classes in which he/she is no longer participating.
- Students, who remain enrolled in a class beyond the published withdrawal deadline, as stated in the online class schedule, will receive an evaluative letter grade.
- Final grades may be affected by attendance as described in the class syllabus.

**DROP**—ending enrollment in a class prior to about 20% point of class meetings. A drop is not recorded on the student's academic record.

**WITHDRAWAL**—ending enrollment in a class between about the 20% point and up to about 60% point of class meetings. A withdrawal is a permanent symbol on the student's academic record and is included in progress probation and disqualification determination.

~~Registration will be blocked in any course where three withdrawals have been earned. Counselor approval will be required for additional enrollment.~~

## Administrative Drop

Registration may be administratively canceled for the following reasons:

1. Failure to pay all mandatory fees in accordance with the fee payment schedule;
2. Using an add code issued to another student;
3. Failure to meet the terms and conditions of a fee deferment;
4. Failure to meet academic or progress standards;
5. Denial of a "Petition to Challenge A Prerequisite."

## Exclusion from Classes

A student may be excluded from class or the college whenever the student:

1. Exhibits behavior which interferes with the educational process. An instructor may remove a student from two class sessions for disruptive behavior. (Refer to BP 3100: Student Rights, Responsibilities and Administrative Due Process); or
2. Is found to have a communicable disease which requires isolation pursuant to a directive from the County Department of Public Health.

## Study Load Limit

**Important: The study load limit is currently under revision by the district due to limited availability of classes and the state budget situation. Consult your semester/session schedule of classes for specific semester/session limitations.**

The maximum study load for a semester is 20 academic units exclusive of physical education activity units and/or 25 units including physical education.

Students are reminded that each unit of credit is calculated to involve a total of at least three hours of classroom and outside time per week. Thus, a 20-unit study load represents a minimum 60-hour work load each week. Students working full-time are advised NOT to attempt a full-time college program.

Twelve units of credit is considered a minimum full-time program during a semester; nine units is three-quarters time, and six units, half-time.

The maximum study load for summer session is 12 academic units excluding physical education and/or 15 units including physical education.

Six units of credit is considered a minimum full-time during the summer session; four units is three-quarters time, and 3 units, half time.

**Note:** Study load requirements may vary at each college for financial aid purposes. Inquire at your college Financial Aid Office for detailed information.

## Basic Skills Unit Limit

Title 5, 55035 states: "...no student shall receive more than 30 semester units of credit for basic skills coursework." Registration will be blocked prior to students reaching this limit so that students can meet with a counselor to ensure that they are successful when this unit limit is met. Students with a verified learning disability are exempt from this limitation (contact the DSPS office for more information).

## Priority Enrollment System

Consistent with state law and the goal of providing a fair and equitable registration system for all students, the San Diego Community College District has established the following priority system for assigning registration appointments.

### Priority Group

- ~~1. EOPS and DSPS students~~
- ~~2. Active Duty Military and Veteran students who meet the eligibility criteria\*~~
- ~~3. Continuing students~~
- ~~4. New matriculating students~~
- ~~5. New and returning students~~
- ~~6. Students possessing a baccalaureate or higher degree who are not matriculating.~~

Within each priority group above, students are prioritized according to cumulative units, including transfer units and work in progress. Students who have completed an education plan will receive priority within each range. New students are assigned an appointment on a first-come, first-served basis.

### Range

- 50.0–72.0 units
- 30.0–49.9 units
- 15.0–29.9 units
- 00.0–14.9 units
- 72.1–89.9 units
- 90+ units

\* Students who are Active Duty Military, or Veterans discharged within the past two years, may be eligible for priority registration. Students should contact the Residency/Admissions Office for additional information. A military ID card or DD214 will be required for verification.

**Enrollment priorities are currently under review and subject to change.**

## Change of Name, Mailing or E-mail Address

All students must report immediately any change of address to the college Admissions Office or online at <http://studentweb.sdccd.edu>. Failure to provide this information will result in delays in registration, and other important information sent by the college. Name changes must be supported with legal documentation and a picture ID and reported in person at the Admissions Office.

# Prerequisites, Corequisites, Limitations on Registration and Advisories

PLAN AHEAD! All prerequisites, corequisites, and limitations on enrollment stated in the course descriptions listed in this catalog will be strictly enforced at the time of registration. Students who do not meet the prerequisite requirements according to college records will not be permitted to register for the course. Students who believe they have met the prerequisite at another institution are strongly advised to have all transcripts of prior college work evaluated and on file well in advance of registration to minimize registration delays.

**Note: Unofficial transcripts are accepted for prerequisite clearance.**

Students should plan their schedules early and see a counselor for assistance.

**PREREQUISITES** are courses that must be completed with a "C" or better prior to registration in a specific course.

**COREQUISITES** are courses that are required to be taken the same semester as another course.

**LIMITATIONS ON ENROLLMENT** are other restrictions that are stated in the course description such as "not open to students with credit in..."

**ADVISORIES** are departmental recommendations to be completed prior to enrolling in the course. Advisories do not prevent a student from enrolling, but are strongly encouraged by the department for a student's academic success.

## Challenge Procedures

Students who believe they have sufficient grounds may challenge a prerequisite, corequisite, or limitation on enrollment in a specific course (the student does not get units for a challenged class). A student may obtain a Petition to Challenge in the Admissions Office ~~and a copy of Procedures 5500.2.~~ The completed petition must be filed in the Admissions Office ~~no later than ten working~~

~~days prior to the published add deadline for the course being challenged.~~ Students who challenge a prerequisite or corequisite after the start of the semester must obtain an add code issued by the instructor prior to completing the petition. Contact the Admissions Office for additional information. For credit by examination, please refer to page 75.

## Residency

MV-10

619-388-2688

Residency is determined when a student applies for admission to the College. The following paragraphs summarize the rules and regulations related to student residency for tuition purposes. Details are found in the CA Education Code Section 68000, Title 5, sections 54000-54072.

### Residency Status

Every person who is married or is age 18 or older and under no legal restriction may establish residence. Certain minors may also establish residence.

- A California "resident" is a person who has resided in the state for more than one year prior to the residence determination date and shows "intent" to make the state of California their permanent residence.
- An undocumented student is precluded from establishing residency. Restrictions also apply to some visas; please see the Residency Office.
- The residence determination date is the day immediately preceding the first day of classes for each semester.

### Factors Considered to Determine Residency

No one factor determines residency. The following factors are called "indices of intent." They, along with a person's presence in California, are among the factors considered in determining California residency:

- Filing California state and federal tax returns with W-2 form (required)
- Possessing a California driver's license and a vehicle registered in California
- Voting in California

- Owning residential property in California for personal use
- Being licensed to practice a profession in California
- Having an active checking and/or savings account in a California bank
- Showing California on military records (Leave and Earnings Statement)
- Possessing a marriage license or a divorce decree issued in California
- Having paid nonresident tuition in another state

## Exception to Residency Requirements

Several exceptions to the residency rules apply. They include, but are not limited to, the following:

- Active duty military personnel stationed in California
- Active military and dependents previously stationed in California, who are currently enrolled, and subsequently receive orders to change their duty station to-out-of-state
- Dependents of active duty military personnel stationed in California
- Certain minors who remained in California when their parents moved
- Self-supporting minors
- Full-time employees of the college or a state agency, or a child or spouse of the full-time employee

## Nonresident Students

A student's residency status is determined at the time of application. Nonresident students must pay nonresident tuition in addition to the enrollment fee and other fees for credit classes. Tuition must be paid in full at the time of registration.

## Assembly Bill (AB) 540

Assembly Bill 540 exempts nonresident students, U.S. citizens, and permanent residents who meet the following criteria, from paying nonresident tuition:

- have attended high school in California for three or more years;

- have received a high school diploma or equivalent, including certification of graduation from a California high school;
- have registered as an entering student at, or concurrent enrollment at an accredited institution of higher education in California;
- must file an affidavit with the college stating that he or she has filed an application to legalize his or her immigration status.

This provision applies to students attending community college after January 1, 2002. For additional information contact the college Residency Office.

## Incorrect Classification

A student incorrectly classified as a California resident is subject to reclassification as a nonresident and payment of all nonresident tuition. If incorrect classification results from false or misleading facts, a student may be excluded from classes or the college upon notification.

## Reclassification

Reclassification to resident status must be requested by the student. Financial independence during the current year and preceding two years will be considered at the time the student requests reclassification. Information regarding requirements for reclassification is available in the Residency Office or Admissions Office.

Tuition may not be refunded to a student classified as a nonresident due to lack of documentation if, at a later date, documentation is presented for a previous semester.

## Appeals

To appeal a residency determination decision, a student may file a Residency Determination Appeal form with the college Admissions and Records Supervisor.

## Limitation of Residency Rules

Students are cautioned that this summary of rules regarding residency determination is by no means a complete explanation of their meaning or content.

For further information, contact the residency clerk in the Admissions Office. Changes may have been made in the statutes and in the regulations since this catalog was published.

## False Information

Providing false information necessary for establishing residency will result in disciplinary action up to and including dismissal from the college.

Contact the Admissions Office for more details.

# International Students

## (F-1 Visa Students)

MV-10

619-388-2717

San Diego Mesa College welcomes applications from nonimmigrant F-1 visa students. Acceptance into a program at the college is necessary before U.S. Citizenship and Immigration Services (formerly INS) Form I-20 (certificate of eligibility) is issued by the International Student Admissions Office. The decision to grant an acceptance will be based on all evidence received prior to the deadlines. Students may contact the International Student Admissions Office at the following address to request forms or information:

International Student Admissions Office, MV-10  
San Diego Mesa College  
7250 Mesa College Drive  
San Diego, CA 92111-4998

## General Information

1. An international student must register for and maintain a minimum of 12 units each semester while at Mesa College. Part-time F-1 status will not be approved. The registration status and academic performance of all international students will be monitored by the college.
2. A recent photograph must be submitted with an application (passport size is acceptable).
3. Prospective international students are advised that they must comply with all requirements of the U.S. Citizenship and Immigration Services and of San Diego Mesa College to be admitted as international students.

4. Restriction on Aviation Program. The Federal government prohibits all F-visa (F-1, F-2 and F-3) students from enrolling in any Aviation Maintenance Technology (AVIM) and/or Aviation Operations (AVIA) classes and programs. No exceptions will be made. Student enrollment is monitored and students will be administratively dropped.
5. A transfer student from another accredited United States college or university must:
  - a. Follow set transfer procedures of the U.S. Citizenship and Immigration Services; and
  - b. Have pursued a full-time course of study with a minimum GPA of 2.0 ("C") at the college the student was last authorized to attend (an official transcript must be filed).

## Admission Requirements

**Application Fee:** All international students are required to pay a \$100.00 non-refundable application fee. Upon admission to the college, the fee will be applied toward the first semester nonresident tuition. The fee is valid for up to one year from the date processed.

**Admission for Fall Semester:** Students must complete all admissions requirements no later than May 1 to be admitted for the fall semester. Since the processing of an application normally requires a minimum of three to five months, students are strongly encouraged to file an application by March 1 of the current year. Students who meet the May 1 deadline will be notified as soon as possible of their admission status. Admission to summer session is restricted to international students properly cleared by May 1 for admission to the Fall semester.

**Admission for Spring Semester:** Students must complete all admissions requirements no later than October 1 to be admitted for the Spring semester. Students who meet the October 1 deadline will be notified as soon as possible of their admission status.

## Academic Achievement

1. An international student must have graduated from high school (or its equivalent) with a GPA of 2.0 ("C") or better, or have obtained a GED certificate (General Education Development).
2. Official transcripts of all previous secondary and college/university education must be submitted,

including an English translation of the transcript, before an application will be considered.

## English Proficiency Requirements

To be considered for admission, an international student whose native language is not English must take an International Test of English as a Foreign Language (TOEFL) and score a minimum of 500 on the paper-based test, 173 on the computerized version, or 61 on the internet-based test. For questions regarding the TOEFL test, please visit the Educational Testing Service website at [www.ets.org/toefl/](http://www.ets.org/toefl/). Institutional reports or photocopies will not be accepted. Students may petition to waive the TOEFL requirement under one of the following conditions:

1. completion of a transfer level college English composition course at an accredited United States institution with a grade of "C" or higher;
2. completion of ESL assessment and placement at a level of English 40 (formerly English 62) or higher; in addition, the student must take the prescribed course work at the level of assessment; or
3. a minimum ACT English score of 19 or SAT verbal score of 450.

**Advanced Degrees:** An international student in possession of an associate degree or its equivalent (completion of about 60 semester units) may be determined to be beyond the course offerings of Mesa college and is encouraged to apply to a four-year college or university.

## Financial Resources

1. Each international student must submit verification of sufficient financial resources. The verification must indicate the ability of the student to finance each year's education and living expenses to the satisfaction of the International Student Advisor (normally \$17,500 a school year for two semesters).
2. An international student attending the college must pay all mandatory fees, including nonresident tuition, enrollment fees and health services fees.
3. Financial aid is not available to F-1 visa international students.

4. An international student may not accept off-campus employment while attending college unless approval is granted by the U.S. Citizenship and Immigration Services (formerly INS) and the International Student Advisor.

## Health Clearance

1. Students must be in good health and free of communicable diseases. The "Report of Health Examination" form or a medical examination report by a physician must be submitted prior to admission. The medical examination must certify immunization against polio, diphtheria, measles, rubella, and tetanus, and must provide tuberculosis clearance.
2. Each student must present and maintain satisfactory evidence of an active medical insurance policy while in attendance.

## Housing

The college is located near public transportation and housing. The college does not provide or assist with housing. Housing is the responsibility of the student.

## Visa Students (other than F-1)

All other visa categories or immigrant classifications must see the Residency Office.

Students who are residing in the United States on other than F-1 student visas must comply with all restrictions on total units enrolled as specified by the U.S. Citizenship and Immigration Services.

## Fees

### Community College Enrollment Fee

The **enrollment fee** is assessed of all students, including nonresidents. The fee is currently ~~\$36.00~~ per unit. Note that an increase in enrollment fees is currently under discussion by the State Legislature and is subject to change.

- Waiver of the enrollment fee is available to students who petition and qualify as recipients of benefits under the Temporary Assistance to Needy Families (TANF) program, the Supplemental Security Income/State Supplementary (SSI) program, or the General Assistance program.

- Indentured apprentices are exempt from enrollment fees for Apprenticeship Program classes only.
- Financial Aid may be available to students who qualify for assistance.

## Health Services Fee

All students are assessed a mandatory fee for health services and accident insurance, whether or not they choose to use the health services available to them. The health services fee is currently ~~\$17.00~~ per semester for Fall and Spring semesters, and ~~\$14.00~~ for the Summer session. The following students are exempt from the health fee:

- Students who meet the income standards for the Board of Governor’s Waiver (**BOGW-A Only**). Contact the Financial Aid Office for eligibility determination.
- Students attending under an approved apprenticeship program.
- Students who depend on prayer for healing, in accordance with the teachings of a bona fide religious sect, denomination, or organization, may petition to have the fees waived. To apply for an exemption contact the Admissions Office.

For more information, contact the Admissions Office.

## Nonresident Tuition

In addition to the enrollment fee and health fee, tuition is charged to students who are not legal residents of California for tuition purposes. The 2011-2012 non-resident tuition fee is \$183.00 per unit.

## Liability Insurance

Students enrolled in occupational courses that require directed clinical practice must pay a fee for liability insurance. Liability insurance fee is automatically assessed at the time of registration. The current fee is \$7.00 per semester.

## Library

Overdue fines and fees apply to late and lost library materials.

## Additional Fees

Automobile permits per semester (hanger included) .....	\$35.00
Carpool permits per semester (Mesa only) .....	\$30.00
Motorcycle permits per semester .....	\$17.50
Transcript of Record .....	\$5.00 (after two have been issued free of charge)
Loss or damage of equipment and books.....	Cost
A.S. College Membership (per academic year)....	\$8.00
Credit by Examination .....	<del>\$36.00</del> /unit
Student Representation Fee.....	\$1.00

*Note: Students receiving public assistance, or who are determined eligible for financial aid, may purchase a single car permit for \$20.00.*

### All fees are subject to change.

Students are expected to buy all books and supplies needed for their courses. Certain occupational programs may require additional expenditures for tools, uniforms and/or liability insurance.

**Student Representation Fee:** All students attending college classes are required to pay a \$1.00 student representation fee. This fee is expended by the college solely for the purpose of student advocacy efforts to Federal, State and local governments. Students have the right to refuse to pay the fee for religious, moral, political or financial reasons.

**Note:** A \$25.00 fee will be assessed for any returned checks.

## Refunds

1. Fees will be refunded to students who reduce their program in accordance with the following schedule:
  - Classes 1 week or shorter in duration, see Admissions for refund deadline dates
  - Short-Term Sessions (less than 16 weeks)—Beginning Monday of second week
  - Primary Session (16 weeks or more)—Beginning Monday of third week
1. Students who are administratively dropped when a Petition to Challenge is denied will receive a full refund of the class(es) petitioned.
2. Students who are academically disqualified and administratively dropped will receive a full refund.



No refund is given for classes dropped after the deadline.

Students with a valid address on file and who do not have an outstanding financial obligation to the district will receive a refund in the mail or credit to their credit card. Refunds will be sent to students after the add/drop deadline. For payments by check or e-check, there is a five week waiting period for checks to clear the bank before refunds will be processed. For more information contact the Accounting Office on campus.

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**NOTE: Students who drop all classes and wish to receive a refund must also submit their parking permit before the refund will be granted. If the permit is not returned within the two-week refund period, the student will not receive a refund for the permit.**

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# Student Services



# Career Center

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<b>Telephone</b>	<b>619-388-2777</b>
<b>Location</b>	<b>Modular Village (MV) 20</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/career-center">www.sdmesa.edu/career-center</a></b>

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The Career Center provides a variety of job seeking and career related resources and activities for students and graduates of Mesa College.

## Student Learning Outcomes

The Career Center faculty and staff have identified the following Student Learning Outcomes for the various services provided by the Career Center:

- Awareness of career services on campus and online.
- Demonstrated use of job search resources and tools.
- Express understanding of personality type, skills, values, and goals as related to their career options.
- Demonstrated use of online career exploration tools to explore individual career options.

### The following services are provided:

- Career assessments
- Career and industry exploration
- Labor market information
- Resume assistance
- Interview techniques
- Job seeking skills
- Assessment of transferable skills
- Annual Spring Career Opportunities Expo
- Current local and nation-wide job listings
- Online job board
- Internships
- On-campus job boards
- Computers for career activities
- Career counseling
- Workshops
- Online resources

All services are free and provide support for students seeking job and career assistance.

# Counseling Services

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<b>Telephone</b>	<b>619-388-2672</b>
<b>Location</b>	<b>Modular Village (MV) 27</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/counseling">www.sdmesa.edu/counseling</a></b>

## Mesa Academic & Athletic Program (MAAP)

<b>Telephone</b>	<b>619-388-2672</b>
<b>Location</b>	<b>Modular Village (MV) 27</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/MAAP">www.sdmesa.edu/MAAP</a></b>

## Mesa Academy

<b>Telephone</b>	<b>619-388-2672</b>
<b>Location</b>	<b>Modular Village (MV) 27</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/mesa-academy">www.sdmesa.edu/mesa-academy</a></b>

## Puente Project

<b>Telephone</b>	<b>619-388-2420</b>
<b>Location</b>	<b>Modular Village (MV) 27</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/puente">www.sdmesa.edu/puente</a></b>

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Academic, career, and personal counseling services are provided in the Counseling Department.

## Student Learning Outcomes

The Counseling Department faculty and staff have identified the following Student Learning Outcomes for the various services available in the Counseling Center:

- Ability to locate, apply, analyze problems, synthesize, conceptualize and evaluate information utilizing a variety of resources to make decisions. The outcome includes both inductive and deductive logical reasoning and methodological processes.
- Ability to articulate thoughts, goals, processes and makes decisions.
- The ability to identify one's own needs, determine resources and access appropriate services.
- Ability to understand one's role in society, take responsibility for one's own actions, make ethical decisions in complex situations, and participate actively in a diverse democracy.

- Ability to become exposed and made aware of cultural values and issues.
- Ability to use various methods of technology.
- Demonstrate the ability to utilize Intellectual Growth in decision-making.
- Relate the effects of Healthy Behavior on goal accomplishment.
- Demonstrate the ability to be Independent by means of self-advocacy.
- Justify Career Choices based on accumulated information or data.
- Display Enhanced Self-Respect and positive self-image.
- Adopt behaviors indicative of Satisfying and Productive Lifestyles.
- Develop Personal and Educational Goals.

#### The following services are provided:

Services include academic skills assessment and development of a Student Education Plan (SEP), which outlines what courses are needed for graduation and/or transfer and provides a checklist for requirements completed and those remaining. Students should have official transcripts from other colleges on file and evaluated before seeking to obtain an official SEP. Once students initiate the filing of their transcript(s) and confirm its arrival at the Mesa College Records Office (MV 7), a request for the evaluation must be made in the Counseling Department. The entire process may take up to a month to complete. Students are advised to review the catalog and schedule for program and general information prior to meeting with a counselor. The Counseling Department offers college success and career planning through courses in Personal Growth listed in the schedule of classes.

## Academic, Vocational & Support Services Programs

### Mesa Academy

The Mesa Academy is designed to support the academic success of Mesa College students. In addition, the program is designed to encourage and assist students earning a Certificate of Achievement, Associate Degree, and/or a Transfer Studies Degree while attending San Diego Mesa College. Students

participating in the Mesa Academy are provided with writing, counseling, and mentoring services throughout their Mesa College career. Discussions, activities, and materials utilized in the program are from an African American perspective. The Mesa Academy is open to all students.

Mesa Academy students participate in the following learning components:

- **Mentoring:** Students receive educational and career advice from Mesa College Faculty/Staff and members of the community through mentorship.
- **Counseling:** Academic, career, and personal counseling is offered by the Mesa Academy Program Counselor and mentors. Mesa Academy Program students develop and complete a career plan and an educational plan.
- **Personal Growth/English:** Mesa Academy Program students enroll in Personal Growth 120 and Personal Growth 140. Personal Growth 120 is paired with English 051 and Personal Growth 140 is paired with English 101 as part of the Mesa College Learning In Communities (LinC) Program.
- **Campus Tours:** Mesa Academy Program students participate in a "Transfer-for-a-Day" Program.
- **Cultural Events:** Mesa Academy Program participates in the planning of Historical Black College University (HBCU) Transfer Day, African American Heritage Events, and the African American/Latino Male Leadership Summit.
- **Study Skills:** STAR Tutoring program provides tutorial services for Mesa Academy Program students in all subjects. Mesa Academy Program students are encouraged to utilize the College Tutorial Services especially the Writing Center.
- **Peer Support:** Mesa Academy students get an opportunity to develop leadership skills, and conduct campus programs through the Mesa Academy Club. Previous Academy students act as mentors to current Mesa Academy Program students.

For more information, contact the Mesa Academy Coordinator in the Counseling Department located on the 3rd floor of the I 400 Building.

### Puente Project

The Puente Project, co-sponsored by the University of California and the California Community Colleges, is an academic preparation, retention and transfer

program. Puente is a year-long program in which students participate in three components:

- **Writing**—students enroll in English 49 for the Fall and English 101 for the Spring semester. Course materials focus on Latino/Chicano literature and experience to enhance writing skills.
- **Counseling**—academic, personal, transfer and career counseling is offered. Students enroll in PERG 120 for the fall semester and PERG 140 for the spring semester.
- **Mentoring**—students are exposed to various career options through their close involvement with mentors.

Materials utilized in the Puente Project come from the Latino/Chicano perspective. Classes are open to all students. If interested in participating, please stop by the Counseling Office, I-430, and speak to the Puente Counselor.

## Mesa Academics and Athletics Program (MAAP)

### Mission Statement

The Mesa Academics and Athletics Program (MAAP) at San Diego Mesa College assists student-athletes in achieving their educational, career and personal goals. MAAP aims to help students obtain an educational degree and meet eligibility requirements based on the California Community Colleges Athletic Association rules and regulations. Most importantly, MAAP helps students succeed in the classroom and the athletic arena.

### MAAP Goals:

- To assist student-athletes in the identification of educational, career and personal goals
- To empower student-athletes to reach academic, career and personal success
- To increase retention, graduation and transfer rates of student athletes
- To encourage each student-athlete to develop independence, self-advocacy and to mature mentally, emotionally, physically, and athletically
- To create an environment within the intercollegiate athletic program that promotes academic achievement
- To provide CCCAA, NCAA, and NAIA resources

- To maximize the academic potential of student-athletes by providing an atmosphere that enhances learning skills, career development, and personal development. This will be done by encouraging the student-athletes to:
  - Enroll in a Personal Growth course, utilize free tutoring services, and use the student services on campus (i.e. Transfer Center, Career Center, Counseling and others).

**MAAP Counselor:** Kristina Carson, 619-388-2535

For more information please visit the MAAP website at [www.sdmesa.edu/MAAP](http://www.sdmesa.edu/MAAP).

## Disability Support Programs and Services (DSPS)

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<b>Telephone</b>	<b>619-388-2780</b>
<b>TTY</b>	<b>619-388-2974</b>
<b>Location</b>	<b>Building I3-101</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/dsps">www.sdmesa.edu/dsps</a></b>

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Mesa College provides programs and services for students with disabilities in compliance with State and Federal legislation including Sections 504 and 508 of the Rehabilitation Act of 1973, the ADAAA of 2009, the Americans with Disabilities Act (ADA) and Americans with Disabilities Amendments Act (ADAA). Student participation in the program is voluntary and confidential.

### Student Learning Outcomes

The Disability Support Programs and Services faculty and staff have identified the following Student Learning Outcomes for the various services provided by Disability Support Programs and Services:

- Identifies educational barriers and functional limitations that are unique to him/her as a result of his/her disability. Develops a Student Education Contract with a counselor and understands how to use it to achieve educational goals
- Discusses his/her educational limitations and appropriate accommodations with the instructor. Utilizes "self-advocacy" skills to speak with instructors

- Identifies appropriate accommodation options with assistance of DSPS counselor
- Requests appropriate academic accommodations in a timely manner
- Participates in diverse activities, DSPS programs and can access campus resources
- Ability to apply and adapt technology and access options

## Eligibility

Anyone interested in receiving services must contact DSPS well before classes start to establish eligibility to ensure timely provision of services. Information can be found at our website.

Eligible students who have a verifiable disability may qualify for support services through DSPS. The programs and services are designed to support students in the achievement of their academic and vocational goals. Specialized classes for students with disabilities are available to support the college academic and vocational programs through DSPS, Physical Education and English Departments. Services provided include priority enrollment, alternate media, interpreters for deaf students, note-taking materials, test-taking accommodations, tape recorders, brailers, use of specialized equipment and adaptive devices, and specialized counseling and referral. Liaison with community agencies is also an important component of the program. The campus is physically accessible.

## Animals on Campus

Animals are not permitted on campus with the exception of authorized service animals for persons with disabilities. Refer to Administrative Procedure (AP 3105.1) *Service Animals*.

## Service Animals

The San Diego Community College District will permit qualified students with disabilities to use service animals in district facilities and on district campuses (Policy 3105.2) in compliance with state and federal law. Please contact the DSPS Office at the enrolled college for review and approval for the issuance of SDCCD identification.

# Extended Opportunity Programs and Services (EOPS) and Cooperative Agencies Resources for Education (CARE)

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<b>Telephone:</b>	<b>619-388-2706</b>
<b>Location:</b>	<b>Building I3-202</b>
<b>Website:</b>	<b><a href="http://www.sdmesa.edu/eops">www.sdmesa.edu/eops</a></b>

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## What is EOPS?

EOPS is a state-funded program. Its purpose is to provide enhanced recruitment, retention, and transition services to eligible students. The services offered are “above and beyond” those offered by the college’s Student Services division. The primary services include assistance in the following areas: priority enrollment, counseling/advisement and preparation for transition to four-year universities or the workplace. Services may also include book vouchers and financial assistance, depending on funding. For detailed information on all services offered and application procedures, please contact the EOPS Office.

EOPS students who are single parents, have a child less than 14 years of age, and receive CalWorks for themselves and/or their children are encouraged to apply for the program’s Cooperative Agencies Resources for Education (CARE) component. CARE provides additional support services, including grants, meal cards, educational supplies and parking permits to address those needs that are unique to single parents.

## Student Learning Outcomes

The Extended Opportunity Programs and Services (EOPS) faculty and staff have identified the following Student Learning Outcomes for the various services provided by EOPS:

- Identify a career goal & develop an educational plan.
- Complete a mid-semester progress report.
- Demonstrate the ability to identify needs.

## Eligibility

You may be eligible for EOPS if you are enrolled full-time (at least 12 units). At least 9 of these units must be taken at Mesa College. In addition, you must meet all of the following criteria:

1. You are a resident of the state of California, as determined by the Admissions Office.
2. You are (or plan to be) a full-time student.
3. You qualify to receive a Board of Governors Waiver A or B.
4. You have not completed 70 (or more) units of degree-applicable college course work. This includes courses taken at other colleges.
5. You are determined to be educationally disadvantaged by meeting any one of the following criteria:
  - a. You do not qualify to enroll for the minimum level English or Math courses required for your AA/AS degree objective.
  - b. You have not fulfilled the requirements for a high school diploma or General Educational Development (GED).
  - c. Upon graduation from high school your high school grade point average (GPA) was less than 2.5 on a 4.0 scale.
  - d. You have been enrolled in a Math or English course, or program that is considered developmental or remedial.
  - e. You have been enrolled in an English as a Second Language (ESL) class or program.
  - f. In the judgment of the EOPS director, using state guidelines, you are determined to be educationally disadvantaged.

## How to Apply

Students interested in applying for the EOPS program must complete an EOPS application and the Free Application for Federal Student Aid (FAFSA) or the Board of Governors Grant Waiver. These applications are available in the EOPS and Financial

Aid Offices. They are also available online or in the EOPS/CARE Office located in I3-202. Students should apply early to ensure that they receive consideration for all services. It is recommended that students complete the FAFSA by the priority filing date published by the Financial Aid Office.

## Evaluations

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<b>Telephone</b>	<b>619-388-2680</b>
<b>Location</b>	<b>Modular Village (MV) 20</b>
<b>Website</b>	<b><a href="http://studentweb.sdccd.edu/evaluations/">http://studentweb.sdccd.edu/evaluations/</a></b>

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The Mesa College Evaluations's office provides services, including information and technical support, to help students achieve their certificate, degree, and transfer goals. Working closely with students and in coordination with the District, Mesa Evaluations process graduation petitions, general education certifications for transfer and other petitions related to academic standards and program completion.

## Financial Aid

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<b>Telephone</b>	<b>619-388-2817</b>
<b>Location</b>	<b>Building I3-100</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/financial-aid">www.sdmesa.edu/financial-aid</a></b>

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The Financial Aid Office is committed to assisting students who might otherwise be unable to continue their education because of a financial disadvantage.

Financial Aid funds are administered in accordance with a nationally established policy of financial assistance for education. The basis of this policy is the belief that students and their parents have the primary responsibility for meeting educational costs. The amount of the contribution expected from students and their family is determined by careful analysis of family financial strength taking into consideration net income, household size, allowable expenses, and assets. The U.S. Department of Education, in cooperation with Congress and educational agencies, has established procedures which are used in making an evaluation of the amount families can be expected to contribute.



## Student Learning Outcomes

The Financial Aid faculty and staff have identified the following Student Learning Outcomes for the various services provided by the Financial Aid Office:

- Student demonstrates ability to evaluate the need for financial resources and seeks access to those resources.
- Student demonstrates ability to use technological resources such as FAFSA on the Web and Loan Counseling Sessions, as well as accessing forms online.
- Student demonstrates ability to correlate completing documents with deadlines for different aid programs.
- In an Appeal situation student demonstrates ability to evaluate past academic performance and present a well written statement with supporting documentation.

## Application

Application materials are available on January 1st for the following academic year. The priority filing date for campus-based aid is April 15th. The Cal Grant deadline is March 2nd. Students filing their application by this date will be the first considered in the award process. However, applications for financial aid are accepted throughout the school year until June 30, 2012.

Prospective students do not have to be accepted for admission to Mesa College to apply for financial aid. In fact, students should apply for aid as soon as the applications are available whether or not they have been admitted to the college since the application process for federal aid can take up to 12 weeks. However, students must be enrolled at Mesa College in order to be offered any financial aid funds.

All financial aid applicants must complete the Free Application for Federal Student Aid (FAFSA). The FAFSA can be filed on the Internet at [www.fafsa.gov](http://www.fafsa.gov). Those who wish to file the paper application must contact the Department of Education at 1-800-433-3243 and request that the form be mailed to them.

Academic transcripts from all prior colleges attended must be submitted before the processing of a financial aid application can be completed. Academic transcripts must be submitted directly to the District Records Office. (See Transcripts of Prior Academic Credit)

## Eligibility

In order to be eligible to apply for financial aid, a student must be a citizen or permanent resident of the United States or be in the country for other than a temporary purpose with the intention of becoming a permanent resident.

Eligible non-citizens may be required to provide proof of permanent residency for Federal Aid. F-1, M5, R1, or R2 Visa students are not eligible for financial aid at Mesa College. For further information regarding other eligible immigration statuses, contact the Financial Aid Office.

Students who do not have a high school diploma or equivalent are required to demonstrate "Ability to Benefit" from instruction. Information is available in the Financial Aid Office.

## Awards

Awards take the form of a "package" of financial aid, usually consisting of grant money and work-study, depending on the financial need of the applicant and the availability of funds. Awards may be adjusted at any time upon notice of receipt of resources not previously reported. Revisions to awards are always possible because personal financial circumstances can be very unpredictable. **If funding is available, aid for valid educational expenses not already covered in the student's budget may be offered.**

Financial aid checks are usually ready for disbursement approximately four or five weeks after the start of classes. Pell Grant disbursements are based on enrollment levels at the time of payment and will not be adjusted. However, SEOG, Cal Grant and loan payments will be adjusted according to enrollment status. If you withdraw from classes after aid has been disbursed to you, you may be required to repay all or part of this aid. (see "Return of Title IV Funds" on page 34)

An automated system is available in the college bookstores to allow California Resident students, who are enrolled in at least six units, to use a portion of their estimated Pell Grant to purchase books and supplies one week prior, and two weeks after, the start of the semester. Funds will be set aside from each eligible student's Pell Grant and placed in a special account in the bookstore. This account may be used for the purchase of books and supplies until the funds are exhausted. The account is valid at the City, Mesa, and Miramar College and ECC bookstores, regardless of where students are taking classes.

The student will be responsible for paying back the Bookstore Pell Grant if the student does not attend classes.

Students who elect not to purchase books from the college bookstore, or have any funds remaining on account, will receive the funds in the mail or by direct deposit with the remainder of their Pell Grant award according to the Pell Grant payment schedule for the semester.

Students must be making satisfactory academic progress as determined by the Standards of Satisfactory Academic Progress for Financial Aid Recipients. Copies are available in the Financial Aid Office, and on our website: [www.sdmesa.edu/financial-aid/information.cfm](http://www.sdmesa.edu/financial-aid/information.cfm).

## Scholarships

Students are encouraged to apply for scholarships, which are available for students who meet the qualifications. These awards are donated by individual contributors, clubs and organizations both on campus and in the community. Amounts are determined by the donors and vary. Qualifying criteria may include financial need, a designated grade point average or other requirements to be eligible for consideration. Scholarship applications may be obtained from the Mesa College Office of Student Affairs, Room H-500 and [www.sdmesa.edu/financial-aid/information.cfm](http://www.sdmesa.edu/financial-aid/information.cfm).

## Return of Title IV Funds

Federal law requires that if a student receives a Federal grant and then drops/withdraws from all of his/her classes, he/she may owe money back to the Federal Government.

Note that the earlier a student drops/withdraws, the more money he/she may have to pay back.

- If a student receives LOAN money and withdraws, he/she must pay back the money according to the normal rules of the loan program.
- If a student receives WORKSTUDY money and withdraws, he/she does not owe anything back and may keep the salary earned; but must stop working immediately.

For more detailed information, contact the Financial Aid Office.

## Financial Aid Programs Available

Following is a basic description of the programs available. Contact the Financial Aid Office for detailed descriptions and eligibility requirements, or visit our website.

### Enrollment Fee Assistance: Board of Governors Waiver (BOGW)

State law requires that students attending the college pay an enrollment fee. Students enrolled in credit classes are currently required to pay \$36.00 per unit.

The college offers the Board of Governors Waiver (BOGW), a state-funded program which will waive the enrollment fee for all eligible applicants.

**Effective Fall 2006, students who are eligible for a Board of Governors Waiver will be required to pay the health fee.** The health fee will no longer be waived for students who are eligible for a BOGW other than students who are eligible for a BOGWA (TANF/CalWorks, SSI/SSP, or General Assistance).

If you are a California resident, you will qualify for a BOGW if any ONE of the following statements applies to your current status:

- You have already qualified for financial aid, such as a Federal Pell Grant or a Cal Grant, which demonstrates that you have need as determined by Federal Methodology.
- You, or your parents in the case of a dependent student, are receiving TANF (Temporary Aid for Needy Families, SSI (Supplemental Security Income), or General Assistance/General Relief at the time of enrollment.
- You have a letter from the Department of Veterans Affairs certifying that you meet the eligibility requirements of "certain disabled veterans, dependents of certain deceased or disabled veterans."
- You are a dependent of a deceased or disabled veteran of the California National Guard. You must submit a letter of certification from the California National Guard Adjutant General's Office.

- You meet the following income standards:

<b>Number In Household</b> (including yourself)	<b>Total Family Income</b> <b>for 2010</b> (adjusted gross income and/or untaxed income)
1	\$16,245 or less
2	\$21,855 or less
3	\$27,465 or less
4	\$33,075 or less
5	\$38,685 or less
6	\$44,295 or less
7	\$49,905 or less
8	\$55,515 or less

Add \$5,610 for each additional family member.

To determine your eligibility for the Board of Governor's Waiver based on the above income standards, you will be considered independent if:

- You do not live with your parents or your parent's registered domestic partner
- You were not claimed as an exemption on any federal income tax filed by your parents or your parent's registered domestic partner in 2010

## Federal Pell Grant

The Federal Pell Grant is the largest federal grant program and is the foundation of a student's total "aid package." Eligibility is determined by the federal government using a standard formula for all applicants.

Enrollment status will be frozen at the time of disbursement after the add/drop period and will be the basis for Pell award. Once the Pell Grant award has been processed it will not be adjusted for additional units added during the semester. If you have a bachelor's degree, you are not eligible for a Pell Grant.

## Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is a federal grant program designed to assist students who have the greatest demonstrated financial need. Awarding of FSEOG funds is determined by the Financial Aid Office based on available resources.

## Cal Grants

The Cal Grant program is administered by the California Student Aid Commission to help low-income students attend college. Students at the college may receive Cal Grant B or C.

- To be eligible for Cal Grant B a student must be a California resident and pursuing an undergraduate academic program of not less than one academic year.
- Cal Grant C is designed for students enrolled in a vocational program who are California residents from a low- or middle-income family.
- See the Financial Aid Bulletin for important dates and deadlines.

## Chafee Grant Program

The Chafee Grant is a federal program that is administered by the California Student Aid Commission to provide financial assistance to prior Foster Youth. The applicant must be certified by the State Department of Social Services of their Foster Youth status prior to reaching age 16. The grant has no citizenship requirement; however, non-citizens without a valid Social Security Number must call the CSAC for additional steps and information. The program awards a maximum of \$5,000 per academic year. Renewal applicants must maintain satisfactory academic progress as defined by the school.

## Federal Work Study

Federal Work Study (FWS) allows students the opportunity to earn part of their financial aid by working in assigned jobs, both on and off campus. The salary received is at least equal to the current minimum wage, but many Federal Work Study jobs pay more than minimum wage. Federal Work Study differs from the other financial aid programs in that a student is allocated a certain amount of money to earn. As work on the job is completed, a time card is submitted for the hours worked just as at a regular job. Once a month the student receives a paycheck for the hours worked. Once the amount allocated in the financial aid package is earned, the job ends.

## Student Loans

Applicants for student loans will be subject to college policy requirements regarding enrollment status, length of attendance, number of units completed, and total amount of previous loans.

Contact the Financial Aid Office for other requirements.

## William D. Ford Federal Direct Loan Program

The Federal Direct Loan is a federal loan program where you borrow directly from the Federal Government. The interest rate for new loans is a fixed rate which is currently 3.4% for loans disbursed from July 1, 2011 to June 30, 2012. New Federal regulations require schools to disburse loans only after the signed Promissory Note has been accepted. You are required to pay the Department of Education loan processing fees that are currently 1%. The fees are deducted from the proceeds of your loan.

To qualify, a student must be enrolled in at least six units, demonstrate Satisfactory Academic Progress for aid recipients and must demonstrate financial need through the federal methodology using the FAFSA Application. To apply for a Federal Direct Loan, students must complete a mandatory loan entrance counseling session. The counseling session is required even if a student has attended a Stafford loan workshop in the past. If a student has attended a Direct Loan workshop at San Diego City, or Miramar Colleges in the past, it will not be necessary to conduct another entrance counseling session. Students must contact the Financial Aid Office or visit the College website for application procedures. You may complete the entrance counseling session online at: [www.studentloans.gov](http://www.studentloans.gov).

The Financial Aid Office will be notified when the session has successfully been completed. In addition, you must fill out a Loan Request Form from your Financial Aid Office. You must complete an online multi-year Master Promissory Note at: [www.studentloans.gov](http://www.studentloans.gov).

You may also be required to submit an Educational Plan and be enrolled at the campus of your declared major. Please ask your Financial Aid Office for more information. The actual loan amount for which you are eligible will be determined by the Financial Aid Office. Checks will be disbursed twice per loan period. If you are a first-time student or borrower, your check will not be disbursed until at least 30 days after the start of the semester. If you have "Late Start" classes, of loan funds to be disbursed, you must be actively attending classes in at least six units.

For additional information, please refer to the Financial Aid Bulletin or call the Financial Aid Office at 619-388-2817.

## Plus Loan

Parents of dependent undergraduate students may borrow from the PLUS loan program. The amount borrowed may be up to the cost of attendance minus any financial aid. Parents must begin repayment within 60 days of receiving the full disbursement of the loan. The interest rate is a fixed rate. Borrower must meet all other financial aid eligibility requirements, including completing the FAFSA.

## Student Emergency Loans

Short term loans for limited amounts of money are available to students in emergency situations. The student must have a completed financial aid file to apply. Contact the Financial Aid Office for further information.

## National Student Clearinghouse

All current SDCCD student's enrollment levels are automatically sent to the National Student Clearinghouse. Submission and disclosure of enrollment levels is a federal requirement for students with current and past student loans according to regulations. Enrollment information for students with no prior or current student loan history is protected from disclosure by the contractual agreement between the National Student Clearinghouse and the San Diego Community College District. For more information, please contact your campus Financial Aid Office.

# Learning Resources Center (LRC)

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<b>Telephone</b>	<b>619-388-2695</b>
<b>Location</b>	<b>LRC – 1st - 4th Floors</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/library">www.sdmesa.edu/library</a></b>

## Audiovisual Services

<b>Telephone</b>	<b>619-388-2690</b>
<b>Location</b>	<b>LRC- 4th Floor</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/av">www.sdmesa.edu/av</a></b>

## Center for Independent Learning (CIL)

<b>Telephone</b>	<b>619-388-2690</b>
<b>Location</b>	<b>LRC- 4th Floor</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/cil">www.sdmesa.edu/cil</a></b>

## Library Administration

<b>Telephone</b>	<b>619-388-2799</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/lrc">www.sdmesa.edu/lrc</a></b>

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The Learning Resource Center (LRC) is home to the campus's library, audiovisual services and a large student computer lab called the Center for Independent Learning (CIL).

## Student Learning Outcomes

The LRC Faculty have identified the following Student Learning Outcomes (SLOs) for the various services available in the LRC:

- Students will be able to complete the procedures necessary to borrow materials. (Library Circulation)
- Students will be able to locate materials they are seeking using appropriate LRC resources. (Library Public Services, including Reference Services and Library Instruction; Audiovisual Services, and Library/AV Collections)
- Students will be able to access appropriate lab tools to complete class assignments. (CIL)

## Library and Audiovisual Services

**Location:** The Library, Audiovisual Services, and The Center for Independent Learning are located in the Learning Resource Center (LRC) building. The Library is housed on the first three floors of the four-story

structure (**Floor One:** Reference, Periodicals, and Checkout services; **Floor Two:** Individual study and group study rooms; **Floor Three:** Circulating book collection). The Center for Independent Learning, Audiovisual Services, and student print stations are located on the fourth floor.

### Special LRC Features:

- Wireless computer access is available on all four floors of the building.
- There is a cafe on the 1st floor.
- 24/7 Live Chat Reference Service is accessible from the library website.
- Photocopiers are located on all 4 floors, and printers are situated on the 1st and 4th floors.

## Important Library Resources:

There are 115,000 hard-copy books, 35,000 electronic books, 3,000 films, tapes, DVDs and records in the Mesa College Library and Audiovisual Services and they can be accessed easily by using any of the public computers located in the Library and Audiovisual Services. The computers also access the City College and Miramar College Library collections.

**Databases** include both online reference sources as well as citations, abstracts and full-text articles in 8,000 periodicals, including a cross-section of 200 American and international newspapers.

**ARTstor** is a rich collection of images primarily covering the fields of art, architecture, design, and archeology.

**Biography Reference Bank\*** contains biographical information on over 500,000 people.

**EBSCO Academic Search Premier\*** indexes over 7,500 scholarly journals and provides full-text coverage of over 4,400 journals.

**EBSCO Master File\*** offers full-text coverage of over 2,000 magazines and journals on many subjects including business, health, education, science, and multi-cultural issues.

**Ethnic Newswatch\*** includes full-text articles from a wide variety of periodicals published in the United States by the ethnic and minority press.

**Hoover's Company Capsules and Profiles** information on companies and businesses.

**JSTOR** is a valuable collection of articles archived from scholarly journals representing a wide variety of disciplines.

**Literature Resource Center\*** is a comprehensive electronic resource which consists of full-text monographs and other literature reference sources.

**Oxford Reference Online\*** contains online publications on many subjects published by Oxford University Press.

**Oxford English Dictionary Online (O.E.D.)\*** is an electronic version of the most authoritative English dictionary providing extensive information on word origins.

**Other Subject-Specific Databases\*** allow access to subject-specific databases related to Psychology, Women's Studies, History, and Communication/Mass Media.

**NoodleBib** is a software package that automatically formats the citations of resources used by students writing a research paper in the citation style their instructors require. It also helps students structure their research and prepare their paper.

**Access to the Internet** includes thirty-five computers dedicated to Internet access in the reference area of the library. There are also computers able to access the internet on the 2nd and 3rd floors of the LRC.

**Career Collection**, books containing current information on colleges and universities, financial aid, occupations, college entrance examinations, and job examinations, are kept in this special collection. Hard-copy college catalogs of many California colleges and universities are also available here.

**Library Instruction** offerings include walk-in workshops; instructor-requested class sessions; and one-on-one instruction appointments.

**Important Audiovisual Resources and Services** contains audio cassettes and CDs, videotapes and DVDs. These audiovisual materials and the equipment needed to use them are circulated to instructors for use in the classroom. Students may review any of these materials in listening and viewing booths, and they may borrow materials and equipment for use in class presentations if they have the written approval of their instructor. Media production equipment is available for students to create original audiovisual materials for use in the classroom. (There may be a fee for materials used.)

***\*Students with an email address may transmit articles to their email without charge.***

## Center for Independent Learning (CIL)

The Center for Independent Learning (CIL) serves as one of the focal points for instructional innovation at Mesa College. It provides individualized learning experiences for students wanting to improve academic skills, to augment in-class activities, or to study a particular subject in depth. The collection includes a variety of media formats including audio cassettes, slides, videocassettes, and computer software.

Students may work with instructors to select self-paced instructional materials geared to their own needs, or they may use the CIL to supplement regular class assignments.

The CIL Student Computing Lab has more than 140 computers and current software all running in a Windows XP network environment and four Apple Macintosh computers. The CIL lab provides Internet access and there are multiple academic programs covering a wide spectrum of subjects including: Adobe Suite, Anthropology, Architecture, Astronomy, Biology, Geography, Mathematics, Nutrition, and Psychology. Of course, there is also the Microsoft Office Suite to use when preparing reports and class assignments.

Scanners and copier printing services (including color and transparencies) are available. Your student ID is required.

A helpful qualified assistant is also available to assist you. If you have questions, please come see us; we're user friendly!

## Computer Services

The use of District computer equipment is limited to District staff and students.

## Outreach

<b>Telephone</b>	<b>619-462-6372 or 619-GO-2-Mesa</b>
<b>Location</b>	<b>Modular Village (MV) 22</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/outreach">www.sdmesa.edu/outreach</a></b>

Our mission is to inform and educate the on- and off-campus communities about the opportunities that exist for them in higher education at San Diego Mesa College. Through one-on-one interaction with students at our feeder area schools, participation in community events and college fairs, and work with Mesa College student and instructional services, we hope to foster and enrich a college-going culture while educating and inspiring the community at large to pursue its academic potential.

If you have any questions or would like a campus tour, please contact us.

### Student Learning Outcomes

The Outreach faculty and staff have identified the following Student Learning Outcomes for the various services provided by the Outreach Program.

- Formulate appropriate questions pertaining to becoming a student at Mesa College.
- Demonstrate the ability to think and act in a respectful manner when interacting with students and community members.
- Demonstrate the ability to think and react in a respectful manner when interacting with outreach staff.
- Take responsibility for the positive or negative consequences of their actions.
- Analyze their strengths and weaknesses relative to being a student.
- Identify the resources available at Mesa and articulate how those resources help students succeed in college.
- Express confidence in their ability to formulate goals.
- Set personal and educational and work goals.
- Demonstrate the ability to effectively utilize computers and other technology.
- Demonstrate the ability to complete the online application.

## STAR TRIO

<b>Telephone</b>	<b>619-388-2481</b>
<b>Location</b>	<b>Building I3-201</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/star">www.sdmesa.edu/star</a></b>

STAR is a federally funded TRIO Student Support Services program that provides opportunities for academic development, assists students with basic college requirements, and serves to motivate students towards the successful completion of their postsecondary education. The goal of STAR is to increase the college retention and graduation rates of its participants and to facilitate the process of transition to the four-year university. Services include tutoring, academic advisement and counseling, economic and financial literacy, transfer assistance and child care assistance. All services are free to eligible students. For an application or additional information, visit the website or come into the office.

### Student Learning Outcomes

The STAR TRIO faculty and staff have identified the following Student Learning Outcomes for the various services available in STAR TRIO.

After using STAR TRIO services, students will be able to:

- Identify personal goals and develop an education plan that meets that objective.
- Effectively utilize computers and other technology.

## Student Health Services

<b>Telephone</b>	<b>619-388-2774</b>
<b>Location</b>	<b>Building L-504</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/health-services">www.sdmesa.edu/health-services</a></b>

The Student Health Services supports the success of students by attending to their physical and psychological well-being. Visits with the Physician, Nurse Practitioner and Psychotherapists are free.

## Student Learning Outcomes

The Student Health Services faculty and staff have identified the following Student Learning Outcomes for the various services available in Student Health.

After using Student Health Services, students will be able to:

- Articulate their knowledge about their physical and psychological health and wellness.
- Verbalize information about culturally diverse practices and beliefs (when engaging in events presented by the Cultural Advisory Council).
- Use the appropriate campus areas to smoke cigarettes.

### The following services are provided:

- Physician and Nurse Practitioner Care - FREE
- Psychotherapy - FREE
- Acne Management
- Blood Pressure screening - FREE
- Family Planning - FREE
- Health Counseling
- Lab Services - Low cost
- Pharmacy - Low cost
- Physical Exams
- Smoking Cessation - FREE
- STD Diagnosis and Treatment - Low cost
- TB tests - Low cost
- Vaccinations
- Women's and Men's Health

Visits with a provider are free. Nurse practitioners are on duty daily. A medical doctor and a psychotherapist are available by appointment only. Some medical procedures may require a fee.

For the protection of college students and personnel, students may be asked to supply health records. In addition, the college may require health consultations and physical examinations when they appear necessary. Legal injection of prescribed medications must occur in the Health Center for safety purposes. All students are strongly encouraged to obtain immunizations against communicable diseases as recommended by public health authorities. Please visit our

website for complete and updated information. [www.sdmesa.edu/health-services/index.html](http://www.sdmesa.edu/health-services/index.html)

## Student Accident Insurance

The Student Accident Insurance Plan provides coverage for on-campus or college-related injuries. This insurance covers most reasonable charges. The student, however, is ultimately responsible for any medical expenses incurred. Evening students taking physical education or designated "hazardous" classes are also covered.

Student Accident Insurance is co-insurance. Students covered by a primary health organization or any other type of medical insurance should first seek treatment and payment from the provider or insurance company. All student claims are made through the Student Health Services office. The student, however, is ultimately responsible for any medical expenses incurred.

## Transfer Center

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<b>Telephone</b>	<b>619-388-2473</b>
<b>Location</b>	<b>Modular Village (MV) 20</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/transfer-center">www.sdmesa.edu/transfer-center</a></b>

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The Transfer Center is the focal point of transfer activities on campus. The Transfer Center serves as a resource center for students to become experts of their transfer goals and to successfully transfer.

## Student Learning Outcomes

The Transfer Center faculty and staff have identified the following Student Learning Outcomes for the various services available in the Transfer Center.

Students will be able to:

- Articulate transfer goals to counselor.
- Create an educational plan.
- Calculate transferable GPA.
- Identify at least one university that offers their major.
- Identify a campus environment that matches student's personal cultural values and issues.



- Identify an appropriate pattern of general education courses for a given major and university by utilizing ASSIST website or other similar resources.
- Articulate a personal transfer timeline to their selected university.
- Articulate next steps for successful transfer.

**The following services are provided:**

- Academic and admissions advising from university representatives
- Guarantee Admissions Programs to many universities
- Group sessions on transfer requirements, guarantee admissions, transitioning to universities, and others
- A library of reference materials and catalogues
- University brochures and handouts
- Computer stations for college research, transfer information and applications
- Annual Transfer Day
- Campus visits

All students are encouraged to walk-in or visit the Transfer Center website to research colleges and majors, browse through catalogs, access online advising sheets and sign up for group sessions. For more information, use the Transfer Guide section of this catalog.

## Tutorial Services

### Tutoring Center

<b>Telephone</b>	<b>619-388-2898</b>
<b>Location</b>	<b>Building I-207 (M)</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/tutoring-center">www.sdmesa.edu/tutoring-center</a></b>

### The Bridging Lab

<b>Telephone</b>	<b>619-388-2869</b>
<b>Location</b>	<b>Building I-207 (M)</b>

Mesa College provides comprehensive tutoring services to students. Various tutoring programs work together to help meet the wide array of student learning needs. Each tutoring center has its

own specialization and brings resources that help students achieve their educational objectives.

## Student Learning Outcomes

The Tutoring Center faculty and staff have identified the following Student Learning Outcomes for the various services available in the Academic Skills Center.

Students accessing the services of the Tutoring Center will be able to:

- Improve their abilities in critical thinking, specifically analyzing problems, conceptualizing theses, and deriving conclusions. Students will enhance both inductive and deductive reasoning.
- Improve their communication in writing, speaking, and/or other modes of communication.
- Enhance their ability to take responsibility for their learning and become independent learners.
- Gain experience in collaborating with students from diverse cultural and ethnic backgrounds, both in small groups and one-on-one.
- Expand their experiences and knowledge in using technology as part of the learning process, including information competency skills.

## Tutoring Center

The Center provides free tutoring in Math, Science, Writing and a variety of other subjects for all Mesa College students. Tutoring is mostly available on a walk-in basis. Tutoring is provided by trained peer tutors, faculty, and volunteers. A schedule of subjects tutored is available in the Center and on our web page. The service is available on a first-come, first-served basis. For additional information please call the Tutoring Center or visit our web page at: [www.sdmesa.edu/tutoring-center](http://www.sdmesa.edu/tutoring-center).

## The Bridging Lab

The Bridging Lab is housed within the Tutoring Center. Instructors provide free individual help in English, ESOL, and study skills. Students may also review for college or course entry, Mesa's placement test, TOEFL or GED tests. Computers for writing, instructional software, and research are available. Bridging Lab instructors work with students on a walk-in basis and the lab is open to all students.

# Veterans and Service Members

## Veterans Center Military Service Connected Benefit Programs

<b>Telephone</b>	<b>619-388-2805</b>
<b>Location</b>	<b>Modular Village (MV) 7</b>

The San Diego Community Colleges have been approved to offer military service connected benefit programs leading to a certificate, an Associate Degree or transfer to a four-year institution. The Veterans Affairs Office staff provides guidance and a mandatory orientation to veterans and assists them in the selection of educational programs which qualify for veterans benefits. The final responsibility for monitoring the process of qualification for educational benefits resides with the individual. Each veteran must read, understand, and comply with the many rules, regulations, and procedures that influence the benefit process. All paperwork must be submitted in person.

Students on active duty and veterans who have been discharged within the past 2 years may be eligible to receive priority registration. Check with the college Admissions/ Residency Office for eligibility. An Active Duty Military ID card or DD214 are required for verification.

**Students must be enrolled in at least one half of their total approved units at Mesa College to be certified by the college.**

**Failure to take the proper classes can result in an overpayment and the reduction or termination of benefits.**

## Student Learning Outcomes

The Admissions, Records and Veterans faculty and staff have identified the following Student Learning Outcomes for the various services available in Admissions, Records and the Veterans Office:

- Ability to locate, apply, analyze problems, synthesize, conceptualize and evaluate information utilizing a variety of resources to make decisions. The outcome includes both inductive and deductive logical reasoning and methodological processes.

- Critical Thinking: Ability to locate, apply, analyze problems, synthesize, conceptualize and evaluate information utilizing a variety of resources to make decisions. The outcome includes both inductive and deductive logical reasoning and methodological processes.
- Ability to articulate thoughts, goals, processes and make decisions.
- The ability to identify one's own needs, determine resources and access appropriate services.
- Ability to understand one's role in society, take responsibility for one's own actions, make ethical decisions in complex situations, and participate actively in a diverse democracy.
- Ability to use various methods of technology.
- Demonstrate the ability to adhere to VA Guidelines.

## Disabled Veterans

Veterans who qualify for educational benefits as disabled veterans may be entitled to special educational benefits. Veterans with disabilities are encouraged to pursue services offered through the campus Disabled Students Programs and Services. For more information see the Veterans Affairs Office on campus.

Veterans should visit the Veterans Administration Regional Office, 8810 Rio San Diego Dr., San Diego, CA 92108, to determine their eligibility for disabled status.

Telephone: 1-800-827-1000

## Veteran Dependent Exemption

Children and spouses of U.S. Veterans with service connected disabilities may be eligible for waiver of college fees and/or for a small monthly payment. Veterans with disabilities are encouraged to pursue services offered through Disability Support Programs and Services.

## Liability

The veteran assumes full liability for any overpayment of veterans benefits.

All persons receiving educational benefits must report to the Veterans Affairs Office after enrollment **every semester** to continue their benefits. **In addition, a Student Educational Plan (SEP)**

**must be on file by the end of the first semester;** otherwise, certification of VA benefits will be delayed for the second semester. This plan must be developed and reviewed by a counselor.

## Number of Units Required

For students enrolled in a degree program under CH: 30, 31, 34, 35, 1606/1607, the following number of units are required each semester to qualify for educational and training allowance:

12 units or more	full allowance
9–11.5 units	three-fourths allowance
6–8.5 units	one-half allowance
2–5.5 units	one-quarter allowance*

\* Chapters 32 and 1606 only. All other chapters, tuition and fees only.

Short-term and summer session courses are computed proportionately for payment purposes.

## Withdrawal/Change of Classes

Veterans are required to notify the campus Veterans Affairs Office when they stop attending class, withdraw from the college, or add or drop a class. Such changes should be reported immediately after completing the add/drop procedure through Reg-e. Failure to comply with this regulation will be grounds for decertification of VA benefits.

## Veterans Academic Progress

A veteran student on Academic or Lack of Progress probation status will be disqualified when his/her grade point average (GPA) falls below 2.0 the subsequent semester. The College Veterans Affairs Office is required to notify the Department of Veterans Affairs (DVA) of this status. The DVA will terminate benefits unless it can be shown that the student is pursuing an appropriate objective and has a reasonable chance for success in the chosen program. Please contact the Veterans Affairs Office for more information.

## Readmissions After Termination Status

Students who wish to be considered for readmissions after the VA termination will be required to meet with a VA counselor and develop a Student Success Plan prior to being readmitted.

## Repeated Classes

Veterans may not receive benefits for a repeat of a course in which a grade of "A," "B," "C," "D," or "P" has already been earned. Although District policy allows a student to repeat a course in which a "D" grade has been received; the course may be certified for benefits only if this catalog states that a grade of "C" or better in that course is required to earn a degree or meet a prerequisite.

## VA Orientations

All first time veterans and/or dependants receiving educational benefits must attend a mandatory VA orientation within 90 days of the **first semester**. If a VA orientation is not attended all benefits will be terminated effective the first day of the semester.

## Work Experience

Veterans may be approved for Work Experience classes only if work experience is required in their major or if they have electives available according to their education plan.

## Transcripts

All official transcripts of prior college work and military schools, including copies of form DD214, Smart Transcript or DD2685 covering all periods of military service, **must be on file in the Records Office by the end of the first semester of attendance at this college**. Certification for benefits for the second semester will be withheld if transcripts are not received.

# Support Services

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## Campus Bookstore

**Telephone** 619-388-2854  
**Location** Building H-110  
**Website** [www.bookstore.sdccd.edu/mesa](http://www.bookstore.sdccd.edu/mesa)

## Cafeteria

**Telephone** 619-388-2727  
**Location** Building H-105

## Child Development Center

**Telephone** 619-388-2727  
**Location** Building R  
**Website** [www.sdmesa.edu/cdc](http://www.sdmesa.edu/cdc)

## College Police Business

**Telephone** 619-388-2749

## College Police Dispatch

**Telephone** 619-388-6405  
**Location** Building Q-100  
**Website** <http://police.sdccd.edu>

## Parking Services

**Telephone** 619-388-6415  
**Location** District Service Center  
 1536 Frazee Road, San Diego  
**Website** [www.sdmesa.edu/parking](http://www.sdmesa.edu/parking)

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## Campus Bookstore

San Diego Mesa College Bookstore stocks textbooks and supplies required for classes. The Bookstore sells study aids, snacks, school supplies, clothing, software, backpacks, gift items, greeting cards, emblematic items and general books. The bookstore also buys back textbooks for cash.

Extended hours are offered at the beginning of each semester. Textbooks can also be purchased online at [www.bookstore.sdccd.edu/mesa](http://www.bookstore.sdccd.edu/mesa). For additional information please contact the bookstore or visit our website listed above.

Hours of operation are extended during the first few weeks of each semester.

## Mesa Bookstore Hours:

Monday–Thursday	7:45 am–7:00 pm
Friday	7:45 am–12:00 pm
Saturday	9:00 am–1:00 pm

Summer hours vary. Contact the bookstore for additional information.

## Cafeteria

The cafeteria serves both day and evening students.

## Fall & Spring Hours

7:00 am–8:45 pm	Monday–Thursday
7:00 am–1:30 pm	Friday

Intersession and Summer hours may vary depending on term. See the summer class schedule for more information.

## Child Development Center

The Child Development Center is a campus laboratory school that provides students with the opportunity to observe and study growth and development patterns in young children. The Center offers an educational program for children 2–5 years of age. The Center also participates in a collaboration with Neighborhood House Association (NHA) Head Start for children 3–5 years of age.

Enrollment in the Center is limited to the children of parents attending day classes at Mesa College. Due to limited space, priority is given based on eligibility as defined by the Child Development Division (CDD) and Head Start income guidelines, California State Department of Education. Parents of children participating in the Center are required to enroll in specific child development courses that support the operation of the children's program. The courses have a lab participation requirement which is completed by working in the Center. Course requirements vary according to the program in which the child is enrolled.

The Center's CDD program operates during the fall, intersession, and spring semesters. The Center's Head Start program operates during the fall, intersession, spring, and two five-week summer sessions.

Hours of Operation: 7:30 am–5:00 pm, M–Th  
 7:30 am–2:00 pm, F

License #372005155

This institution is an equal opportunity provider.

## College Police Department

The College Police Department is responsible for providing public safety, law enforcement and crime prevention services. Its mission is to maintain peace and order and a safe learning environment throughout our District. It is also responsible for administering the campus parking program, lost and found and the building security program.

The police business office is located in Q-100. Emergency services are provided 24 hours a day 7 days a week. Learn more about College Police at our website: <http://police.sdccd.edu>.

## Police Escort and Related Services

The college police are available to provide escort, vehicle battery jumps, and vehicle lockout services during regular hours of operation. Students who wish to use these services should call College Police Dispatch at 619-388-6405 or go any of the College Police Offices for assistance:

## Emergency Calls

The college will not interrupt classroom instruction to deliver messages, except in an extreme emergency. All calls/inquiries should be referred to the College Police Dispatch at 619-388-6405.

## Parking

Student parking permits are available for purchase during registration through Reg-e or at the campus accounting office. Permits paid for before classes begin are generally mailed and those purchased after classes begin must be picked up. You do not need a permit in student lots for the first two weeks of each sixteen-week semester. Check in College Police for parking permits not received before the grace period ends.

- Parking permits are not required on Saturdays, Sundays or college holidays including winter break and spring break.
- Parking permits are required Monday through Friday, 7:00 am to 10:00 pm.
- Parking between the hours of 11:00 pm and 6:00 am requires an overnight permit issued in College Police.

- Students may not utilize staff/faculty parking areas unless they are the owner of a valid state issued disabled placard. Owners of valid disabled placards may also park at meters without paying and are not required to buy a parking permit.

There are parking meters and/or time limited visitor parking at each campus reserved for visitors use only. Students may not utilize. All meters require deposit of coins. Permits are not valid at meters. All campuses have pay and display machines for visitor and student use. Pay and display permits are only valid in student parking lots.

Bicycles must be parked only in designated bicycle racks. Students are not allowed to ride bicycles or motorized bikes on campus. Violators are subject to disciplinary action.

For additional information on parking visit your campus police office or call parking services at 619-388-6415.

## Transportation for Disabled Students

Paratransit (curb-to-curb) service is available for a fee to persons with disabilities who cannot use public transportation. ADA certification is required. Please contact DSPS for additional information or forms for certification. Students may also contact MTS (Metropolitan Transit System) at 888-517-9627.

## Vehicle Immobilization/Booting/Towing/Hold

Vehicles that accumulate five (5) or more unpaid parking citations are subject to immobilization (booting) of their vehicle and/or impound (towing) at owners expense. In addition a hold may be placed on the vehicle registration. If a vehicle accumulates \$100 or more in outstanding fines a hold may be placed on student records/grades.

## Emergency Cell Phone Numbers

The College encourages students to provide cell phone numbers to communicate with them in the event of a college or district-wide emergency. Students can log-on to Reg-e at: <http://studentweb.sdccd.edu> to provide this important information.



# Student Affairs



# Student Affairs

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<b>Telephone</b>	<b>619- 388-2699</b>
<b>Location</b>	<b>Building H-500</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/student-affairs">www.sdmesa.edu/student-affairs</a></b>

## Associated Student Government (ASG)

<b>Telephone</b>	<b>619-388-2903</b>
<b>Location</b>	<b>Building H-600</b>

## Associated Students Membership

<b>Telephone</b>	<b>619-388-2903</b>
<b>Location</b>	<b>Modular Village (MV) 17</b>
<b>Website</b>	<b><a href="http://studentweb.sdccd.edu">http://studentweb.sdccd.edu</a></b>

## Phi Theta Kappa (ΦΘΚ)

<b>Telephone</b>	<b>619-388-2203 or 619-388-2301</b>
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## Psi Beta (ΨΒ)

<b>Telephone</b>	<b>619-388-2290</b>
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## Student Clubs and Organizations

<b>Telephone</b>	<b>619-388-2699</b>
<b>Location</b>	<b>Building H-500</b>

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The Student Affairs Office provides programs and services that promote the success of students, enrich the quality of campus life and support classroom instruction.

## Student Learning Outcomes

The Student Affairs staff have identified the following Student Learning Outcomes for the various services provided by Student Affairs:

- Students who participate in the Associated Student Government, Inter Club Council and Clubs will increase their interpersonal skills.
- Students who attend Club Orientation will know the availability of campus resources, policies and procedures needed for successful programming at Mesa College.
- Students will demonstrate an understanding of their rights and responsibilities as members of our campus community.

## Campus Life

Life on the Mesa College campus is rich and dynamic. Students and staff have a variety of educational, leadership, social, and cultural events and activities in which to engage according to their needs and interests.

## Associated/Student Government (ASG)

The Associated Students Government is the representative body of the students in the shared governance process at Mesa College. The Associated Students Government provides students with practical leadership experience in the area of budget/financial planning, parliamentary procedures, and in the development of programs and services which are designed to meet the students' needs. The student leaders and the staff of the Student Affairs Office encourage you to get involved and take part in the many leadership opportunities available at Mesa College.

Current district policy allows the elected Associated Student President to share the responsibility of the Student Trustee. The Student Trustee is a non-voting member of the Board of Trustees of the San Diego Community College District and represents the student voice on the Board.

Any student who participates in student government may not have any BP 3100 violations of suspension or greater, as stated on their official student record.

## Associated Students Membership

While purchase of this membership is voluntary, students are strongly encouraged to purchase it in order to gain access to valuable benefits. You can purchase your ASG membership online.

### With Your A.S. Membership Fee You Receive:

- Admission to Athletic Events
- ASG Fax Machine
- Book Loans
- Discounts
- Emergency Loans
- Entertainment & Guest Speakers
- Free Gift (Academic Planner)



- Free Scantrons
- Free Transcript
- Scholarship Opportunities

### Your A.S. Membership Card Supports:

- All Student Clubs & Organizations
- Associated Students Government
- Cultural Events
- Leadership Opportunities (including conferences and workshops)
- Mesa College Departments and Programs
- Scholarships & Awards
- ASG Textbook Rental Program

### Want to Get Involved?

The Associated Students Government meets every Monday and Wednesday, from 12:30 pm–1:30 pm. Meeting agendas are posted outside of H-600. Please keep these times open and become part of your Student Government.

We need leaders, planners, recorders, and student representatives. We offer experience in student governance and opportunities for you to express your ideas.

For more information about getting involved and leadership opportunities at Mesa College, please come to the Student Affairs Office.

### Community Events

Mesa College actively supports various community events. Students and staff are invited and encouraged to participate in these events as representatives of the college and as concerned community members.

### Student Clubs and Organizations

The many activities sponsored by student clubs and organizations provide a rich and exciting multicultural dimension to college life at Mesa. All clubs contribute to a lively and student-oriented environment on campus. Examples of student activities include:

- Asian-American/Pacific Islander History Month
- Black History Month Celebration

- Cinco de Mayo Celebration
- Club-Rush
- Community Service activities
- Cultural Events
- Festival of Colors
- Holiday Fair
- Scholarship Workshops
- Spring Fling
- Student Appreciation Day
- Women's History Month

An alphabetical listing of the active and inactive clubs at Mesa is available in the Student Affairs Office. Students who do not find a club that interests them are encouraged to start a new club.

### Honor Societies

San Diego Mesa College has two active honor societies on campus.

#### Phi Theta Kappa ( $\Phi\Theta\K$ )

Beta Beta Upsilon Chapter is an international honor society. To be eligible, students must have completed 12 semester units and have a 3.5 GPA. PTK provides international recognition for academic excellence.

Advisors: Beate Bermann-Enn and Elizabeth Hueneberg.

#### Psi Beta ( $\Psi\B$ )

Psi Beta is a National Honor Society in Psychology for Community and Junior Colleges. It is a national honor society for students enrolled in or majoring in Psychology. To be eligible for membership, students must have a cumulative GPA of 3.0, or range in the top 35% of enrollment, and completion of one Psychology course and 12 semester hours.

Advisor: Jaye Van Kirk



### Student Rights, Responsibilities, and Privacy of Student Records (Board of Trustees Policy 3100)

This policy specifies that students are subject to adhering to the policies and procedures of the San Diego Community College District, as well as all federal, state, and local laws. Students are subject to

charges of misconduct concerning acts committed on District-owned or controlled property or the District-sponsored activities as specified in the policy.

You may view a full copy of the policy by accessing the following website:  
<http://www.sdccd.edu/public/district/policies/>

## Student Grievance Procedures

The purpose of this procedure is to provide a prompt and equitable means for resolving student grievances. The procedures enumerated in Student Grievance Procedures 3100.1 shall be available to any student who believes a district decision or action has adversely affected his/her rights as a student as specified in Student Rights and Responsibilities, Policy 3100, Section *a* through *i*. Note that grades are not grievable under this policy. Refer to the Grade Challenge section, page 58, of this catalog.

## Review of Student Records

Pursuant to the "Family Rights and Privacy Act of 1974" (Public Law 93-380) and the California Education Code, a student may request to inspect all his/her official school records, files, and related data that are classified as Student Records. The records will be available for review at a mutually convenient time during regular working hours. Contact the Vice President, Student Services. If information in the file is inaccurate, misleading, or inappropriate, a student may request removal of the information or include a statement disputing the material that is challenged.

The law provides that no individual, agency or organization shall have access to a student's records without the written consent of the student, with the exception of the following:

1. School officials within the district with "legitimate educational interest" such as the following:
  - a. Instructional staff, when such information will assist in determining or improving the academic competence of students under their jurisdiction.
  - b. Counseling staff, when such information will assist the student in achieving his/her personal, academic, or vocational goals.

- c. Classified staff who are involved in the creation, analysis, distribution, correction, compilation, or processing of student records.
  - d. Management or supervisory staff, when such information is directly related to the successful completion of management or supervisory duties, as prescribed by the Board of Trustees.
  - e. The Board of Trustees, in appropriate disciplinary cases.
2. Specified federal and state educational officials such as officials in the State Chancellor's Office.
  3. State and local officials to the extent that such information is required to be reported pursuant to state law adopted prior to November 19, 1974.
  4. Schools or colleges of intended enrollment provided that the student has been notified and given the opportunity to challenge the content.
  5. Organizations conducting studies for the district.
  6. Persons in connection with an emergency.
  7. Agencies in connection with financial aid.
  8. Court officials pursuant to a court order or subpoena provided the college makes a reasonable effort to notify the student in advance of such compliance.

You may view a full copy of the policy by accessing the following website:  
<http://www.sdccd.edu/public/district/policies/>

# Administrative Services



Administrative Services provides services related to the campus budget, physical facilities construction, remodels, switchboard functions, telecommunications support and repair, campus email coordination, disaster preparedness coordination, alarm code review, and the financial aspects of the Mesa College Foundation.

## Business Services

Business Services provides technical budget support; processes requisitions and chargebacks; responsible for co-curricular budget and travel and conference.

### Administrative Unit Outcomes

The Business Services staff has identified the following Administrative Unit Outcomes for the various services provided by the Business Services Office:

- San Diego Mesa College Business Services Office will pursue collaborative efforts with District Business Services for improved procedures to support business operations to Mesa College.
- San Diego Mesa College Business Services Office will improve its “open door” policy to college personnel for increased customer service.
- San Diego Mesa College Business Services Office will continue to provide online business information access to college personnel for timely and effective processing of all related matters.

## Employment and Payroll

Employment and Payroll provides services related to the hiring process of certificated, classified, and NANCE employees; payroll processing, and leave reporting. The office functions as the liaison between District Human Resources and Mesa College.

### Administrative Unit Outcomes

The Employment and Payroll staff has identified the following Administrative Unit Outcomes for the various services provided by the Employment and Payroll Office:

- Employment/Payroll will increase communication of payroll information to campus personnel for improved understanding of employment conditions.
- Employment/Payroll will pursue collaborative efforts with the District Human Resources Office for improved procedures to support employment and payroll services to Mesa College.
- Employment/Payroll will increase participation in college participatory governance committees for improved understanding of campus employment/payroll needs and support of student learning outcomes.

## Reprographics

Reprographics provides clerical support and reprographic service to faculty and staff; campus mail receiving and distribution services.

### Administrative Unit Outcomes

The Reprographics Center and Mail Services staff has identified the following Administrative Unit Outcomes for the various services provided by the Reprographics Center and Mail Services:

- San Diego Mesa College Reprographics Center/ Mail Services will provide efficient and effective reprographic and mail services to campus personnel for improved support of the learning environment.
- San Diego Mesa College Reprographics Center/ Mail Services will improve on-line production services to campus personnel for effective and efficient delivery of learning materials.
- San Diego Mesa College Reprographics Center/ Mail Services will provide on-going customer service training to department staff for optional client service.

## Stockroom and Receiving

Stockroom and Receiving provides supply services to faculty and staff, including receiving functions, inventory control, maintenance of charge-back system.

## Administrative Unit Outcomes

The Stockroom, Shipping and Receiving staff has identified the following Administrative Unit Outcomes for the various services provided by the Stockroom, Shipping and Receiving Office:

- San Diego Mesa College Stockroom/Shipping & Receiving will continue to provide high quality educational supplies and services to faculty, staff and administrators to support student success.
- San Diego Mesa College Stockroom/Shipping & Receiving will improve the supplies ordering process which will enable the college community to receive accurate, up to date materials for the teaching and learning environment.
- San Diego Mesa College Stockroom/Shipping & Receiving will provide on-going customer and computer software training to its department staff for improved customer service to campus personnel.

## Student Accounting

Student Accounting provides streamlined registration processes to support student success; maintains campus accounting records; accounting for ASB and other Fiduciary Fund accounts.

## Administrative Unit Outcomes

The Student Accounting staff has identified the following Administrative Unit Outcomes for the various services provided by the Student Accounting Office:

- Student Accounting Office/Associated Students Funds will provide information for student officers, club advisors and agency contacts for improve understanding of mandated processing requirements.
- The Student Accounting Office/Fiduciary Trust will provide improved online Fiduciary information to improve campus personnel's understanding and use of the process.
- The Student Accounting Office will increase communication to assist students with improved understanding of the registration process.
- The Student Accounting Office will pursue collaborative efforts with the San Diego Community College District Student Services to improve the student registration processes.



# Academic Information and Regulations



# Academic Information

## SDCCD Online Learning Pathways

San Diego City, Mesa, and Miramar Colleges

### QUALITY ONLINE LEARNING

Learn anytime, anywhere with our convenient, flexible online courses that fit your busy schedule. Enjoy interactive communication with your classmates and instructor as you complete your coursework in an engaging, supportive learning environment. Our quality online courses are developed and taught by experienced instructors from our three colleges—City College, Mesa College, and Miramar College.

Want to get started? Find out if online learning is for you at [www.sdccdonline.net/newstudents.htm](http://www.sdccdonline.net/newstudents.htm)

Get ready for online learning success! Visit [www.sdccdonline.net/students/training/](http://www.sdccdonline.net/students/training/)

Online students receive 24/7 Technical Support at <https://www.sdccdonline.net/help> or by calling toll free 866-271-8794. For login instructions visit [www.sdccdonline.net/login](http://www.sdccdonline.net/login).

## Honors

G-223

619-388-2341

The Honors Program serves self-motivated and qualified students by providing exceptional and intense learning experiences in classes that are usually highly interactive. Topics are explored in depth; typical assignments emphasize critical thinking, extensive reading and writing, and student presentations and critiques. Activities may also include opportunities for individual research projects, close interaction with faculty and participation in community and cultural events. In addition to Honors class sections, the program also offers Honors Contracts through which individuals can pursue Honors-level course work in a non-Honors section.

The Honors Program offers enhanced transferability to our partner institutions which include University of California campuses: Los Angeles, Irvine, Santa Cruz, and Riverside; Chapman University; Pitzer and Pomona Colleges; Cal Poly Pomona, Loyola Marymount, Occidental College, San Diego State

University, and more. For qualified students, the program also has a Book Award Scholarship designed to defray the cost of textbooks.

The Honors Program is open to all students (part-time or full-time, day or evening) and can be found in all disciplines (vocational, liberal arts, fine arts, sciences, business, etc.). For specific criteria and other information, please consult the schedule of classes or contact the campus Honors Coordinator.

Students enrolled in an Honors section (including an honors contract), may not transfer to a regular section after the deadline to make a schedule adjustment for the class. Petition for Honors credit after the course has been completed will not be permitted.

For more information about the Honors Program, visit the website: [www.sdmesa.edu/honors/](http://www.sdmesa.edu/honors/)

## Accelerated College Program

Transferable community college courses in calculus and political science are provided for qualified high school students at local high schools. The Accelerated College Program (ACP), located at Mesa College, is the districtwide program responsible for providing and administering these classes, following guidelines established by a joint agreement between the San Diego Community College District and San Diego Unified School District. When an ACP student becomes a first-year or transfer student, credits transfer and are widely applicable in fulfilling general education and pre-major requirements at most universities.

## Mesa LinC -Learning in Communities

Mesa LinC, Learning in Communities, is an innovative program designed to promote student success by offering a new approach to traditional courses by linking two courses together. LinC instructors work as a team, coordinating class activities and assignments to create a better understanding of both courses. Students are with the same group of students in the linked classes joining together as a team. This facilitates long lasting friendships as students support each other with their classes. Students benefit from a coordinated class work load and from a strong support network of LinC faculty and students in a friendly atmosphere.

Participation in Mesa LinC has been shown to contribute to improved student success. Mesa LinC



offers three pathways to success, LinC to Transfer, LinC to Careers and LinC to Success. Students are required to enroll in all classes within a LinC. Mesa LinC courses can be located in the class schedule.

## Dean's List

A Dean's Honor List is compiled at the close of each academic year. To be eligible for the Dean's Honor List, a student must complete 12 units or more during the academic year and have earned a grade point average of 3.5 or better.

## Cooperative Work Experience

F-216F 619-388-2271

Under certain circumstances, students can receive academic credit for their current employment or internship. For registration information refer to the class schedule or contact the Work Experience website: [www.sdmesa.edu/work-exp](http://www.sdmesa.edu/work-exp).

## Student Learning Outcomes

Students will be able to:

- Apply critical thinking, research, analysis and resolution for work-related and personal objectives.
- Convert classroom instruction to the employment environment through the development and attainment of three (3) learning objectives.
- Write Specific, Measurable, Achievable, Relevant and Timely (S.M.A.R.T.) objectives related to new or expanded workplace responsibilities.
- Develop and apply personal skills, attitudes, and competencies in the workplace and within course-related activities.
- Demonstrate effective communication and technological awareness through the use of technologies (internet, email and telephone) in ways appropriate to the course.
- Demonstrate accountability for their personal actions at work and as it relates to course.
- Research resources for education and/or career options.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Class Attendance

Students are responsible for dropping or withdrawing from classes they are no longer attending.

Students who remain enrolled in a class beyond the published withdrawal deadline will receive an evaluative letter grade. See the details for each class in the online schedule for these important dates.

## Grading System

**Unit of Credit:** A unit of credit represents one hour of lecture or recitation and two hours of preparation per week, or three hours of laboratory per week for one semester.

### Academic Grades

Grades	Standard	Grade Points per Unit
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Passing — Less than satisfactory	1
F	Fail	0
P	Pass	N/A
NP	No Pass	N/A

The grade point average (GPA) is determined by dividing the total grade points earned by the total grade point units completed as listed in the chart above.

**Administrative symbols:** P/NP - Pass/No Pass; I—Incomplete; W—Withdrawal; IP—In Progress; RD—Report Delayed. Administrative symbols are not used in the computation of GPA. See below for further explanation.

**Pass/No Pass (P/NP)** is a non-punitive grading system where such units earned will be counted in satisfaction of curricular requirements but will be disregarded in determining a student's grade point average. For more specific information, refer to the discussion of the Pass/No Pass Policy on page 58.

**Incomplete:** A symbol of "I," Incomplete, may be assigned by an instructor when a student has been unable to complete academic work for unforeseeable emergency and/or justifiable reason

at the end of term. A copy of the "Assignment of Incomplete" form will be mailed to the student and the original retained in the Office of the Vice President, Student Services. A final grade will be assigned when the work stipulated has been completed and evaluated by the instructor or when the time limit for completion of the work has passed. An "I" must be made up no later than one year following the end of the term in which it was assigned. In the event of unusual, verifiable circumstances beyond the student's control, a petition may be filed in the Office of the Vice President, Student Services for extension of the one-year time limit. **Course repetition is not permitted to remove an Incomplete.**

**Withdrawal:** An official withdrawal from classes may be requested by the student or initiated on his/her behalf by the instructor or Vice President, Student Services.

The following conditions apply to official withdrawal:

1. No record of the class will be entered on the student's permanent record if the official withdrawal is made by the deadline to drop without a "W" being recorded as published in the schedule of classes.
2. If the withdrawal is made after the deadline for withdrawing without a "W" and prior to the deadline for withdrawal published in the class schedule for that session, a "W" will be recorded on the student's permanent record. No exceptions to this policy will be made. Petitions will not be accepted for exception to policy.
3. A student attending a session after the deadline for withdrawal will not be eligible to receive a "W" and must be assigned an academic grade or other administrative symbol by the instructor. Exceptions to this policy will be made only upon verification of extreme circumstances beyond the control of the student. Petitions requesting exception must be filed in the Admissions Office.
4. Withdrawal (W) symbols will be used in the calculation of lack of progress probation and disqualification status.
5. Students on active duty or reserve duty may petition for a "military" withdrawal. This withdrawal is not calculated in the determination of academic progress and is noted on the student's academic record.

6. Students will be allowed a maximum of four withdrawals in any course.

**In Progress:** A symbol of "IP," In Progress, will be assigned when a class extends beyond the normal end of a semester or summer session, that is, when the class "carries over" from one term to the next. The appropriate grade, however, shall be assigned and appear on a student's record for the term during which the course is completed. The "IP" will remain on the academic record. The "IP" shall not be used in the calculation of a student's grade point average.

## Grade Challenge

Final grades will be issued at the end of each semester. In the absence of mistake, fraud, incompetence, or bad faith, the determination of the student's grade by the instructor shall be final once it has been recorded by the Registrar's Office.

A student may challenge a grade or request a change to his/her academic record within two years from the date of issuance. Requests beyond two years will not be accepted. Students wishing to challenge a grade should first attempt to resolve the challenge informally with the instructor. Grade challenges must be processed under District Procedure 3001.2, Grade Challenge Procedure. Copies of Procedure 3001.2 are available in the Office of the Vice President, Instruction.

## Pass/No Pass Grading Policy

Consistent with District policy, a student in good standing may elect to be graded on a Pass/No Pass basis in a course. A grade of "Pass" (P) shall be awarded only for work which otherwise would have received a grade of "C" or better. Work that would have received a "D" or "F" will be graded "No Pass" (NP). The units earned will be counted in satisfaction of program requirements, but will be disregarded in determining a student's grade point average.

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**IMPORTANT: Students who plan to transfer to a four-year institution should review the Pass/No Pass acceptance policy of the transfer institution prior to petitioning for this grading option. Restrictions in the San Diego Community College District also apply.**

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### Limitations:

1. No course required in the student's major may be taken for Pass/No Pass. Some departments may limit this option further.

2. No more than 12 units of a student's coursework completed in the San Diego Community College District may be graded on a Pass/No Pass basis.

#### Conditions:

1. Students who wish to be graded on a Pass/No Pass basis must submit a petition to the Admissions Office by the deadline date listed in the schedule of classes. **No exceptions to the deadline will be made.**
2. An evaluation on a Pass/No Pass basis may not later be changed to a letter grade nor may the reverse occur. **No exceptions to this condition will be made. Petitions will not be accepted for exception to policy.**

There are courses in which Pass/No Pass grades are used exclusively; these are designated in the catalog course description by the statement "Pass/No Pass Only." In addition, there are courses which cannot be taken on a Pass/No Pass basis; these are designated in the course description by the statement "Letter Grade Only."

Effective Fall 2009, the Credit/No Credit (CR/NC) grading option changed to Pass/No Pass (P/NP).

## Standards of Academic Progress

Students are in good academic standing when they have a 2.0 grade point average or higher and have completed at least 60% of the units they have attempted. There are two kinds of probation and disqualification, one based upon GPA (Academic Performance) and the other based upon the number of units completed (Progress Performance).

Certain programs may have more stringent standards for academic progress. Consult the program director for more information.

Students enrolled in the core curriculum of medically-related programs will be governed by the probation and disqualification policies as outlined in the program policy manuals that reflect the tenets of safe medical practice and respond to program accreditation guidelines.

### Academic Probation\*

A student whose grade point average falls below a 2.0. A student on academic probation will return to

good standing once his/her cumulative grade point average reaches or exceeds 2.0.

### Academic Disqualification

A student on academic probation status will be disqualified when his/her non-cumulative GPA falls below 2.0 in a subsequent semester. An enrollment hold will be placed on the student's record. Students who are disqualified after registering for the subsequent semester will be administratively dropped from all classes.

### Lack of Progress Probation\*

A student shall be placed on lack of progress probation when the percentage of all (cumulative) units for which entries of "W," "I," and "NP" are recorded reaches or exceeds 40%.

### Lack of Progress Disqualification

A student who has been placed on lack of progress probation shall be disqualified and an enrollment hold placed on the student's record when the percentage of units for which entries of "W," "I," and "NP" are recorded in a subsequent semester (non-cumulative), reaches or exceeds 40%. Students who are disqualified after registering for the subsequent semester will be administratively dropped from all classes.

#### \* Exceptions:

Provisional, Joint Diploma and Special Admit High School students who do not maintain good academic standing will be automatically disqualified. PROBATIONARY STATUS WILL NOT APPLY!

If disqualified:

- Special Admit High School students will not be permitted to re-enroll without approval from a high school counselor.
- Joint Diploma students must see a JD counselor for readmission.

### Readmission after Disqualification

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**Note: Disqualification status is determined based upon Progress Performance, Academic Performance, or a combination of both.**

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#### • First Disqualification

Students who wish to be considered for readmission after the first disqualification will be

required to meet with a counselor and develop a Student Success Plan prior to being readmitted. Students who are disqualified after registering for the next semester will be administratively dropped from all classes.

- **Second Disqualification**

Students who are disqualified a second time will be required to sit out for one semester. Students who are disqualified after registering for the next semester will be administratively dropped from all classes.

- **Third Disqualification**

Students who are disqualified a third time (and each disqualification thereafter) will be required to sit out for one year. Students who are disqualified after registering for the next semester will be administratively dropped from all classes.



# Academic Regulations

## Honest Academic Conduct

Honesty and integrity are integral components of the academic process. Students are expected to be honest and ethical at all times in their pursuit of academic goals in accordance with BP 3100, Student Rights, responsibilities and Administrative Due Process. Procedure 3100.3 describes the Academic and Administrative Sanctions for Students who are found to be cheating. A copy of Procedure 3100.3 can be obtained in the Office of the Vice President of Student Services in A-103.

## Course Repetition Policy

- No course in which a "C" or better grade has been earned may be repeated.
- Students will not be allowed more than four enrollments in any activity course, regardless of grade or symbol earned.
- Each course in which an unsatisfactory grade ("D," "F," or "NP") has been earned may be repeated once without a petition. The course being repeated must be the same as the original course,

not its equivalent. Only the newly-earned units and grades will be used in computing the grade point average.



## Academic Renewal Without Course Repetition

A student with a semester of substandard academic performance (GPA below 2.00) that is not reflective of present demonstrated ability may petition to have the substandard semester disregarded in computation of grade point average.

The following conditions apply:

1. To be eligible for academic renewal without course repetition a student must:
  - a. have transcripts from all institutions attended officially on file.
  - b. successfully complete, in an accredited college or university, 15 units with a grade point average of at least 2.0 subsequent to the work to be disregarded. All courses taken during the semester/session in which the student reaches or exceeds the 15 unit minimum will be used in computing the 2.0 grade point average.
  - c. have one year elapsed since the semester/session to be disregarded was completed.
2. Students with degrees or certificates: Semester/session(s) prior to earning a degree or certificate are not eligible for academic renewal.
3. A maximum of 24 units or two semesters or summer sessions, may be disregarded, whichever is greater. For purposes of academic renewal for summer session work, a summer session will be defined as all courses which commence after the termination of the spring semester and end prior to the commencement of the fall semester. Intersession work will be included in the spring semester. Short-term or carry-over classes will be considered to be part of the semester or session in which credit is awarded or a grade is posted to the student's permanent academic record.
4. For any semester/session in which course work is to be disregarded, all courses in that semester/session will be disregarded including satisfactory grades.

5. If grade alleviation has already been applied two times for a course included in the semester to be disregarded, the course will not be eligible for academic renewal without repetition and will remain on the academic record.
6. If previous action for academic renewal has been applied to coursework included in the semester to be disregarded, the course will not be eligible for academic renewal without repetition and will remain on the academic record.
7. Academic renewal without course repetition may be applied to substandard semester(s) from another accredited institution.
8. Similar actions by other accredited institutions will be honored and also be counted as part of 24 units or two semesters/sessions limit to be disregarded.
9. The permanent academic record will be annotated in such a manner that the record of all work remains legible, ensuring a true and complete academic record.
10. Recalculation of the grade point average will be used toward qualification for graduation with honors.
11. Academic standing for the semester/session(s) will not be adjusted.
12. Once the petition is approved, the action is not reversible.

### Course Repetition—Lapse of Time

Academic departments may require that courses for the major be completed within a specified number of years prior to the granting of the Associate Degree, Certificate of Achievement, or Certificate of Performance. Students may be required to repeat a course in which a satisfactory (A, B, C, P) grade has already been earned. Students with questions about the applicability of previous coursework are advised to consult the department as early as possible.

### Disability Support Programs and Services (DSPS) Repeat

Additional repetitions of a course to accommodate a student's disability-related needs may be permitted. For students with disabilities, course repetition is determined on an individual student basis. Contact DSPS Office on campus for more information.

### Mandated Training

Students who are required to meet a legally mandated training requirement as a condition of continued paid or volunteer employment may repeat a credit course any number of times. Students should complete the *Mandated Training Course Repetition* form.

For more information on course repetition, consult the Counseling Office at your college.

### Transcripts of Record

A student may order an official transcript of record online, in person, by mail or via fax. To order an official transcript online, visit: <https://studentweb.sdccd.edu/transcript/>. Transcripts ordered online will be mailed within 1-2 business days.

To order a transcript in person, a student may complete a request at the Accounting Office at the college, or in person at the Office of the Registrar, San Diego Community College District, Administrative Office, 3375 Camino del Rio South, San Diego, CA 92108.

Payment of fees must be made prior to processing a request for transcripts.

The following policy has been adopted by the San Diego Community College District Board of Trustees regarding the issuance of transcripts of record:

1. The first two transcripts will be issued without charge.
2. There will be a charge of \$5.00 for each additional transcript.
3. All transcript requests are processed within 10 working days except "RUSH" orders.
4. A \$10.00 special handling fee will be charged for all "RUSH" order transcript requests, including hand carried transcript requests ordered at the District Office. Rushed transcripts are processed within 24-48 hours of receipt. The special handling fee will be charged per request.

Requests will not be processed if students have outstanding holds preventing the release of the official transcript.

All official copies of the student's permanent record are in the Office of the Registrar. The Office of the Registrar will certify only to the accuracy of the records prepared by and issued directly from that office to another institution.

More information on ordering transcripts is available at: <http://studentweb.sdccd.edu/docs/transcript.pdf>

## Transcripts of Prior Academic Credit

Students with credit from other colleges and universities must have official transcripts on file with the college.

- Official transcripts are those sent directly from one institution to another.
- Transcripts will only be accepted for one year after issuance.
- Transcripts brought in by students ~~may be accepted for unofficial purposes only.~~
- Transcripts are required even if prior credits do not appear relevant or if units were taken years ago.
- Students receiving veterans benefits must have transcripts on file within one semester.
- Certain programs require transcripts before admission to the program.
- Official transcripts from other institutions become the property of the college and will not be duplicated or returned.
- Official transcripts should be sent to the following address:

San Diego Community College District  
3375 Camino del Rio South, Rm. 100  
San Diego, CA 92108-3883

**Please note:** Foreign transcripts are not evaluated by the college. This service is available through outside companies for a fee. Contact the college Evaluation Office for additional information.

## Transferability of Credits

Credits from other regionally accredited institutions may be accepted for transfer credit after evaluation by District evaluators. San Diego Mesa College **will not** accept the transfer credits from another institution if the evaluation by the District evaluators determines that the credits received from another

accredited institution do not meet the equivalent standards for a similar course taken at San Diego Mesa College.

## Academic Credit for Nontraditional Education

Academic credit may also be available to currently enrolled SDCCD students for skills or knowledge not obtained by formal scholastic experience or for prior course work with content determined equivalent to district courses.

Credit is available through the following:

- **Advanced Placement Examinations (AP).**
- **College-Level Examination Program (CLEP).**
- **Defense Activity for Non-Traditional Education Support (DANTES).**
- **International Baccalaureate (IB).**

To obtain credit, students must request the evaluation of tests and meet the following criteria:

- All official transcripts must be on file
- Official copies of test scores must be submitted
- Students must be currently enrolled.

Limitations on credit by standardized examination:

- ~~Tests cannot be used to meet the American Institutions nor laboratory requirements. The English composition requirement can be met by the AP exam.~~
- Credit will not be granted for equivalent courses completed.
- Grades are not assigned, nor is the credit used in calculating grade point average.
- Departmental approval is required to satisfy requirements in the student's major.
- Credit granted by SDCCD does not necessarily transfer to other institutions. Transferability of credit is determined by the receiving college or university.
- A maximum of 30 cumulative units may be granted for acceptable scores on any combination of AP, CLEP, DANTES, or IB.

The tables below indicate the score necessary, the credit allowed, and the area(s) satisfied for each of the examinations accepted for credit.

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Art History</b> 3, 4, or 5	<b>ARTF 110 or 111</b> <b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C1 or C2</b> 3 semester units	6 semester units	<b>Area 3A or 3B</b> 3 semester units	8 quarter/5.3 semester units
<b>Biology</b> 3, 4, or 5	<b>Area B</b> 6 semester units (4 units GE credit)	<b>Area B2 &amp; B3</b> 4 semester units	6 semester units	<b>Area 5B (with lab)</b> 4 semester units	8 quarter/5.3 semester units
<b>Calculus AB or BC/AB subscore<sup>1</sup></b> 3, 4, or 5	<b>Area A2 &amp; Mathematics Competency</b> 3 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	3 semester units	<b>Area 2A</b> 3 semester units	4 quarter/2.6 semester units
<b>Calculus BC<sup>1</sup></b> 3, 4, or 5	<b>Area A2 &amp; Mathematics Competency</b> 6 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	6 semester units	<b>Area 2A</b> 3 semester units	8 quarter/5.3 semester units
<b>Chemistry</b> 3 <i>Exam taken prior to Fall 2009</i>	<b>CHEM 200</b> <b>Area B</b> 6 semester units (6 units GE credit)	<b>Area B1 &amp; B3</b> 6 semester units	6 semester units	<b>Area 5A (with lab)</b> 4 semester units	8 quarter/5.3 semester units
<b>Chemistry</b> 4 or 5 <i>Exam taken prior to Fall 2009</i>	<b>CHEM 200 &amp; 201</b> <b>Area B</b> 6 semester units (6 units GE credit)	<b>Area B1 &amp; B3</b> 6 semester units	6 semester units	<b>Area 5A (with lab)</b> 4 semester units	8 quarter/5.3 semester units
<b>Chemistry</b> 3 <i>Exam taken Fall 2009 or later</i>	<b>CHEM 200</b> <b>Area B</b> 6 semester units (4 units GE credit)	<b>Area B1 &amp; B3</b> 4 semester units	6 semester units	<b>Area 5A (with lab)</b> 4 semester units	8 quarter/5.3 semester units
<b>Chemistry</b> 4 or 5 <i>Exam taken Fall 2009 or later</i>	<b>CHEM 200 &amp; 201</b> <b>Area B</b> 6 semester units (4 units GE credit)	<b>Area B1 &amp; B3</b> 4 semester units	6 semester units	<b>Area 5A (with lab)</b> 4 semester units	8 quarter/5.3 semester units
<b>Chinese Language &amp; Culture</b> 3, 4, or 5	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>Comparative Government &amp; Politics</b> 3, 4, or 5	<b>POLI 103</b> <b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D8</b> 3 semester units	3 semester units	<b>Area 4H</b> 3 semester units	4 quarter/2.6 semester units
<b>Computer Science A<sup>1</sup></b> 3, 4, or 5	3 semester units	N/A	3 semester units	N/A	2 quarter/1.3 semester units

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Computer Science AB<sup>1</sup></b> 3, 4, or 5	6 semester units	N/A	6 semester units	N/A	4 quarter/2.6 semester units
<b>English Language</b> 3, 4, or 5	<b>ENGL 101 Area A1</b> 6 semester units (3 units GE credit)	<b>Area A2</b> 3 semester units	6 semester units	<b>Area 1A</b> 3 semester units	8 quarter/5.3 semester units <sup>2</sup>
<b>English Literature</b> 3, 4, or 5	<b>ENGL 101 Area A1 &amp; C</b> 6 semester units (6 units GE credit)	<b>Area A2 &amp; C2</b> 6 semester units	6 semester units	<b>Area 1A or 3B</b> 3 semester units	8 quarter/5.3 semester units <sup>2</sup>
<b>Environmental Science</b> 3 <i>Exam taken prior to Fall 2009</i>	<b>Area B</b> 4 semester units (4 units GE credit)	<b>Area B1 &amp; B3</b> <b>or</b> <b>Area B2 &amp; B3</b> 4 semester units	4 semester units	<b>Area 5A (with lab)</b> 3 semester units	4 quarter/2.6 semester units
<b>Environmental Science</b> 4 or 5 <i>Exam taken prior to Fall 2009</i>	<b>BIOL 120 Area B</b> 4 semester units (4 units GE credit)	<b>Area B1 &amp; B3</b> <b>or</b> <b>Area B2 &amp; B3</b> 4 semester units	4 semester units	<b>Area 5A (with lab)</b> 3 semester units	4 quarter/2.6 semester units
<b>Environmental Science</b> 3 <i>Exam taken Fall 2009 or later</i>	<b>Area B</b> 4 semester units (4 units GE credit)	<b>Area B1 &amp; B3</b> 4 semester units	4 semester units	<b>Area 5A (with lab)</b> 3 semester units	4 quarter/2.6 semester units
<b>Environmental Science</b> 4 or 5 <i>Exam taken Fall 2009 or later</i>	<b>BIOL 120 Area B</b> 4 semester units (4 units GE credit)	<b>Area B1 &amp; B3</b> 4 semester units	4 semester units	<b>Area 5A (with lab)</b> 3 semester units	4 quarter/2.6 semester units
<b>European History</b> 3, 4, or 5	<b>Area C or D</b> 6 semester units (3 units GE credit)	<b>Area C2 or D6</b> 3 semester units	6 semester units	<b>Area 3B or 4F</b> 3 semester units	8 quarter/5.3 semester units
<b>French Language</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	<b>Area C</b> 6 semester units (6 units GE credit)	<b>Area C2</b> 6 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>French Language</b> 3, 4, or 5 <i>Exam taken Fall 2009 or later</i>	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>French Literature</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units



## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>German Language</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	<b>Area C</b> 6 semester units (6 units GE credit)	<b>Area C2</b> 6 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>German Language</b> 3, 4, or 5 <i>Exam taken Fall 2009 or later</i>	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>Human Geography</b> 3, 4, or 5	<b>GEOG 102</b> <b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D5</b> 3 semester units	3 semester units	<b>Area 4E</b> 3 semester units	4 quarter/2.6 semester units
<b>Italian Language and Culture</b> 3 <i>Exam taken prior to Fall 2010</i>	<b>ITAL 101</b> <b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>Italian Language and Culture</b> 4 or 5 <i>Exam taken prior to Fall 2010</i>	<b>ITAL 102</b> <b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>Japanese Language and Culture</b> 3, 4, or 5	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>Latin Literature</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	4 quarter/2.6 semester units
<b>Latin: Vergil</b> 3, 4, or 5	<b>Area C</b> 3 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	3 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	4 quarter/2.6 semester units
<b>Macroeconomics</b> 3, 4, or 5	<b>ECON 120</b> <b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D2</b> 3 semester units	3 semester units	<b>Area 4B</b> 3 semester units	4 quarter/2.6 semester units
<b>Microeconomics</b> 3, 4, or 5	<b>ECON 121</b> <b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D2</b> 3 semester units	3 semester units	<b>Area 4B</b> 3 semester units	4 quarter/2.6 semester units
<b>Music Theory</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C1</b> 3 semester units	6 semester units	N/A	8 quarter/5.3 semester units

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Physics B</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	<b>Area B<sup>3</sup></b> 6 semester units (6 units GE credit)	<b>Area B1 &amp; B3<sup>3</sup></b> 6 semester units	6 semester units <sup>3</sup>	<b>Area 5A (with lab)<sup>4</sup></b> 4 semester units	8 quarter/5.3 semester units <sup>5</sup>
<b>Physics B</b> 3, 4, or 5 <i>Exam taken Fall 2009 or later</i>	<b>Area B<sup>3</sup></b> 6 semester units (4 units GE credit)	<b>Area B1 &amp; B3<sup>3</sup></b> 4 semester units	6 semester units <sup>3</sup>	<b>Area 5A (with lab)<sup>4</sup></b> 4 semester units	8 quarter/5.3 semester units <sup>5</sup>
<b>Physics C (electricity / magnetism)</b> 3, 4, or 5	<b>Area B<sup>3</sup></b> 4 semester units (4 units GE credit)	<b>Area B1 &amp; B3<sup>3</sup></b> 4 semester units	4 semester units <sup>3</sup>	<b>Area 5A (with lab)<sup>4</sup></b> 3 semester units	4 quarter/2.6 semester units <sup>5</sup>
<b>Physics C (mechanics)</b> 3, 4, or 5	<b>Area B<sup>3</sup></b> 4 semester units (4 units GE credit)	<b>Area B1 &amp; B3<sup>3</sup></b> 4 semester units	4 semester units <sup>3</sup>	<b>Area 5A (with lab)<sup>4</sup></b> 3 semester units	4 quarter/2.6 semester units <sup>5</sup>
<b>Psychology</b> 3, 4, or 5	<b>PSYC 101</b> <b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D9</b> 3 semester units	3 semester units	<b>Area 4I</b> 3 semester units	4 quarter/2.6 semester units
<b>Spanish Language</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	<b>Area C</b> 6 semester units (6 units GE credit)	<b>Area C2</b> 6 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>Spanish Language</b> 3, 4, or 5 <i>Exam taken Fall 2009 or later</i>	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>Spanish Literature</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	<b>Area C</b> 6 semester units (6 units GE credit)	<b>Area C2</b> 6 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>Spanish Literature</b> 3, 4, or 5 <i>Exam taken Fall 2009 or later</i>	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B &amp; 6A</b> 3 semester units	8 quarter/5.3 semester units
<b>Statistics</b> 3, 4, or 5	<b>MATH 119</b> <b>Area A2 &amp; Mathematics Competency</b> 3 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	3 semester units	<b>Area 2A</b> 3 semester units	4 quarter/2.6 semester units
<b>Studio Art: Drawing</b> 3, 4, or 5	<b>ARTF 150A &amp; 155A</b> 3 semester units	N/A	3 semester units	N/A	8 quarter/5.3 semester units <sup>6</sup>

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Studio Art: 2-D Design</b> 3, 4, or 5	3 semester units	N/A	3 semester units	N/A	8 quarter/5.3 semester units <sup>6</sup>
<b>Studio Art: 3-D Design</b> 3, 4, or 5	3 semester units	N/A	3 semester units	N/A	8 quarter/5.3 semester units <sup>6</sup>
<b>U.S. Government &amp; Politics</b> 3, 4, or 5	<b>POLI 101</b> <b>Area D &amp; US-2</b> 3 semester units (3 units GE credit)	<b>Area D8 &amp; US-2</b> 3 semester units	3 semester units	<b>Area 4H &amp; US-2</b> 3 semester units	4 quarter/2.6 semester units
<b>U.S. History</b> 3, 4, or 5	<b>HIST 109</b> <b>Area C or D &amp; US-1</b> 6 semester units (3 units GE credit)	<b>Area C2 &amp; US-1 or Area D6 &amp; US-1</b> 3 semester units	6 semester units	<b>Area 3B &amp; US-1 or Area 4F &amp; US-1</b> 3 semester units	8 quarter/5.3 semester units
<b>World History</b> 3, 4, or 5	<b>HIST 101</b> <b>Area C or D</b> 6 semester units (3 units GE credit)	<b>Area C2 or D6</b> 3 semester units	6 semester units	<b>Area 3B or 4F</b> 3 semester units	8 quarter/5.3 semester units

\* Credit may not be awarded for exams which duplicate credit for the same content earned through other means.

1. If a student passes more than one exam in calculus or computer science, only one exam may be applied to UC / CSU baccalaureate or SDCCD associate degree / certificate requirements.
2. Students passing both English AP exams will receive a maximum of 8 quarter units / 5.3 semester units toward UC baccalaureate degree requirements.
3. Students passing more than one AP exam in physics will receive a maximum of 6 units of credit toward CSU baccalaureate or SDCCD associate degree / certificate requirements and a maximum of 4 units of credit toward CSU GE certification or SDCCD associate degree GE requirements.
4. Students passing either of the Physics C exams will be required to complete at least 4 additional semester units in IGETC Area 5 coursework to meet the IGETC Area 5 unit requirement.
5. Students passing more than one physics AP exam will receive a maximum of 8 quarter units / 5.3 semester units toward UC baccalaureate degree requirements.
6. Students passing more than one AP exam in studio art will receive a maximum of 8 quarter units / 5.3 semester units of credit toward UC baccalaureate degree requirements.

To request an official transcript, write to: PSAT/NMSQT Office, P.O. Box 6720, Princeton, NJ, 08541-6720

## International Baccalaureate (IB) Credit

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Biology</b> 5-7 Higher Level	<b>Area B</b> 6 semester units (3 units GE credit)	<b>Area B2</b> 3 semester units	6 semester units	<b>Area 5B (without lab)</b> 3 semester units	8 quarter/5.3 semester units
<b>Chemistry</b> 5-7 Higher Level	<b>Area B</b> 6 semester units (3 units GE credit)	<b>Area B1</b> 3 semester units	6 semester units	<b>Area 5A (without lab)</b> 3 semester units	8 quarter/5.3 semester units

## International Baccalaureate (IB) Credit

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Economics</b> 5-7 Higher Level	<b>ECON 120 &amp; 121</b> <b>Area D</b> 6 semester units (3 units GE credit)	<b>Area D2</b> 3 semester units	6 semester units	<b>Area 4B</b> 3 semester units	8 quarter/5.3 semester units
<b>Geography</b> 5-7 Higher Level	<b>Area D</b> 6 semester units (3 units GE credit)	<b>Area D5</b> 3 semester units	6 semester units	<b>Area 4E</b> 3 semester units	8 quarter/5.3 semester units
<b>History (any region)</b> 5-7 Higher Level	<b>Area C or D</b> 6 semester units (3 units GE credit)	<b>Area C2 or D6</b> 3 semester units	6 semester units	<b>Area 3B or 4F</b> 3 semester units	8 quarter/5.3 semester units
<b>Language A1 (any language)</b> 4 Higher Level	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	N/A	N/A
<b>Language A1 (any language)</b> 5-7 Higher Level	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B<sup>1</sup></b> 3 semester units	8 quarter/5.3 semester units
<b>Language A2 (any language)</b> 4 Higher Level	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	N/A	N/A
<b>Language A2 (any language)</b> 5-7 Higher Level	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	6 semester units	<b>Area 3B<sup>1</sup></b> 3 semester units	8 quarter/5.3 semester units
<b>Language B (any language)<sup>2</sup></b> 4 Higher Level	6 semester units	N/A	6 semester units	N/A	N/A
<b>Language B (any language)<sup>2</sup></b> 5-7 Higher Level	6 semester units	N/A	6 semester units	Area 6A	8 quarter/5.3 semester units
<b>Mathematics</b> 4 Higher Level	<b>Area A2 and Mathematics Competency</b> 6 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	6 semester units	N/A	N/A
<b>Mathematics</b> 5-7 Higher Level	<b>Area A2 and Mathematics Competency</b> 6 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	6 semester units	<b>Area 2A</b> 3 semester units	8 quarter/5.3 semester units
<b>Physics</b> 5-7 Higher Level	<b>Area B</b> 6 semester units (3 units GE credit)	<b>Area B1</b> 3 semester units	6 semester units	<b>Area 5A (without lab)</b> 3 semester units	8 quarter/5.3 semester units
<b>Psychology</b> 5-7 Higher Level	<b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D9</b> 3 semester units	3 semester units	<b>Area 4I</b> 3 semester units	8 quarter/5.3 semester units
<b>Theatre</b> 4 Higher Level	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C1</b> 3 semester units	6 semester units	N/A	N/A

## International Baccalaureate (IB) Credit

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Theatre</b> 5-7 Higher Level	<b>Area C</b> 6 semester units (3 units GE credit)	<b>Area C1</b> 3 semester units	6 semester units	<b>Area 3A</b> 3 semester units	8 quarter/5.3 semester units
* Credit may not be awarded for exams which duplicate credit for the same content earned through other means.					
1. Students who pass the Language A1 or A2 Higher Level exam in a language other than English with a score of 5 or higher will also receive credit for IGETC area 6A.					
2. If a student passes more than one test in the same language other than English (e.g., two exams in French) then only one examination may be applied.					
Credit is not awarded for the following exams: Art..					
IB transcripts may be requested from your high school..					

## College Level Examination Program (CLEP)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>American Government</b> 50 or higher	<b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D8</b> 3 semester units	3 semester units	N/A	N/A
<b>American Literature</b> 50 or higher	<b>Area C</b> 3 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	3 semester units	N/A	N/A
<b>Analyzing and Interpreting Literature</b> 50 or higher	<b>Area C</b> 3 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	3 semester units	N/A	N/A
<b>Biology</b> 50 or higher	<b>Area B</b> 3 semester units (3 units GE credit)	<b>Area B2</b> 3 semester units	3 semester units	N/A	N/A
<b>Calculus</b> 50	<b>Area A2 and Mathematics Competency</b> 3 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	3 semester units	N/A	N/A
<b>Chemistry</b> 50 or higher	<b>Area B</b> 3 semester units (3 units GE credit)	<b>Area B1</b> 3 semester units	3 semester units	N/A	N/A
<b>College Algebra</b> 50 or higher	<b>Area A2 and Mathematics Competency</b> 3 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	3 semester units	N/A	N/A

## College Level Examination Program (CLEP)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>College Algebra - Trigonometry</b> 50 or higher	<b>Area A2 and Mathematics Competency</b> 3 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	3 semester units	N/A	N/A
<b>English Literature</b> 50 or higher	<b>Area C</b> 3 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	3 semester units	N/A	N/A
<b>Financial Accounting</b> 50 or higher	3 semester units	N/A	3 semester units	N/A	N/A
<b>French – Level I</b> 50 or higher	6 semester units <sup>1</sup>	N/A	6 semester units <sup>1</sup>	N/A	N/A
<b>French – Level II</b> 59 or higher	<b>Area C</b> 12 semester units <sup>1</sup> (3 units GE credit)	<b>Area C2</b> 3 semester units	12 semester units <sup>1</sup>	N/A	N/A
<b>German – Level I</b> 50 or higher	6 semester units <sup>1</sup>	N/A	6 semester units <sup>1</sup>	N/A	N/A
<b>German – Level II</b> 60 or higher	<b>Area C</b> 12 semester units <sup>1</sup> (3 units GE credit)	<b>Area C2</b> 3 semester units	12 semester units <sup>1</sup>	N/A	N/A
<b>History of the United States I</b> 50 or higher	<b>Area D &amp; US-1</b> 3 semester units (3 units GE credit)	<b>Area D6 &amp; US-1</b> 3 semester units	3 semester units	N/A	N/A
<b>History of the United States II</b> 50 or higher	<b>Area D &amp; US-1</b> 3 semester units (3 units GE credit)	<b>Area D6 &amp; US-1</b> 3 semester units	3 semester units	N/A	N/A
<b>Human Growth and Development</b> 50 or higher	3 semester units	<b>Area E</b> 3 semester units	3 semester units	N/A	N/A
<b>Humanities</b> 50 or higher	<b>Area C</b> 3 semester units (3 units GE credit)	<b>Area C2</b> 3 semester units	3 semester units	N/A	N/A
<b>Information Systems and Computer Applications</b> 50 or higher	3 semester units	N/A	3 semester units	N/A	N/A
<b>Introduction to Educational Psychology</b> 50 or higher	3 semester units	N/A	3 semester units	N/A	N/A
<b>Introductory Business Law</b> 50 or higher	3 semester units	N/A	3 semester units	N/A	N/A

## College Level Examination Program (CLEP)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Introductory Psychology</b> 50 or higher	<b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D9</b> 3 semester units	3 semester units	N/A	N/A
<b>Introductory Sociology</b> 50 or higher	<b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D0</b> 3 semester units	3 semester units	N/A	N/A
<b>Natural Sciences</b> 50 or higher	<b>Area B</b> 3 semester units (3 units GE credit)	<b>Area B1 or B2</b> 3 semester units	3 semester units	N/A	N/A
<b>Pre-Calculus</b> 50 or higher	<b>Area A2 and Mathematics Competency</b> 3 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	3 semester units	N/A	N/A
<b>Principles of Accounting</b> 50 or higher	3 semester units	N/A	3 semester units	N/A	N/A
<b>Principles of Macroeconomics</b> 50 or higher	<b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D2</b> 3 semester units	3 semester units	N/A	N/A
<b>Principles of Management</b> 50 or higher	3 semester units	N/A	3 semester units	N/A	N/A
<b>Principles of Marketing</b> 50 or higher	3 semester units	N/A	3 semester units	N/A	N/A
<b>Principles of Microeconomics</b> 50 or higher	<b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D2</b> 3 semester units	3 semester units	N/A	N/A
<b>Spanish – Level I</b> 50 or higher	6 semester units <sup>1</sup>	N/A	6 semester units <sup>1</sup>	N/A	N/A
<b>Spanish – Level II</b> 63 or higher	<b>Area C</b> 12 semester units <sup>1</sup> (3 units GE credit)	<b>Area C2</b> 3 semester units	12 semester units <sup>1</sup>	N/A	N/A
<b>Trigonometry</b> 50	<b>Area A2 and Mathematics Competency</b> 3 semester units (3 units GE credit)	<b>Area B4</b> 3 semester units	3 semester units	N/A	N/A
<b>Western Civilization I</b> 50 or higher	<b>Area C or D</b> 3 semester units (3 units GE credit)	<b>Area C2 or D6</b> 3 semester units	3 semester units	N/A	N/A
<b>Western Civilization II</b> 50 or higher	<b>Area D</b> 3 semester units (3 units GE credit)	<b>Area D6</b> 3 semester units	3 semester units	N/A	N/A

## College Level Examination Program (CLEP)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
* Credit may not be awarded for exams which duplicate credit for the same content earned through other means.					
1. If a student passes more than one exam in the same language other than English (e.g. two exams in French), then only one examination may be applied toward CSU baccalaureate degree requirements.					
Credit is not awarded for the following exams: College Mathematics, English Composition (with or without Essay), Freshman College Composition and Social Sciences and History.					
To request an official CLEP transcript, write to: Educational Testing Service, P.O. Box 6600, Princeton, NJ 08541-6600					

## DANTES Subject Standardized Test (DANTES/DSST)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Fundamental College Algebra</b> 50 or higher <i>Exam taken prior to Spring 2008</i>	<b>Area A2 and Mathematics Competency</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Fundamental College Algebra</b> 400 or higher <i>Exam taken Spring 2008 or after</i>	<b>Area A2 and Mathematics Competency</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Principles of Statistics</b> 50 or higher <i>Exam taken prior to Spring 2008</i>	<b>Area A2 and Mathematics Competency</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Principles of Statistics</b> 400 or higher <i>Exam taken Spring 2008 or after</i>	<b>Area A2 and Mathematics Competency</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Art of the Western World</b> 50 or higher	<b>Area C</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Western Europe Since 1945</b> 50 or higher	<b>Area C</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>An Introduction to the Modern Middle East</b> 50 or higher	<b>Area D</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Human / Cultural Geography</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A



## DANTES Subject Standardized Test (DANTES/DSST)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>A History of the Vietnam War</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A
<b>Foundations of Education</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A
<b>Lifespan Developmental Psychology</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A
<b>General Anthropology</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A
<b>Introduction to Law Enforcement</b> 50 or higher	<b>Area D</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Criminal Justice</b> 50 or higher <i>Exam taken prior to Spring 2008</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Criminal Justice</b> 400 or higher <i>Exam taken Spring 2008 or after</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Fundamentals of Counseling</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A
<b>Principles of Finance</b> 400 or higher <i>Exam taken Fall 2009 or after</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Human Resource Management</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A
<b>Organizational Behavior</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A
<b>Principles of Supervision</b> 50 or higher <i>Exam taken prior to Fall 2009</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Principles of Supervision</b> 400 or higher <i>Exam taken Fall 2009 or after</i>	3 semester units	N/A	N/A	N/A	N/A

## DANTES Subject Standardized Test (DANTES/DSST)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Introduction to Computing</b> 50 or higher <i>Exam taken prior to Spring 2008</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Introduction to Computing</b> 400 or higher <i>Exam taken Spring 2008 or after</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Introduction to Business</b> 50 or higher <i>Exam taken prior to Fall 2009</i>	<b>Area D</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Introduction to Business</b> 400 or higher <i>Exam taken Fall 2009 or after</i>	<b>Area D</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Personal Finance</b> 50 or higher <i>Exam taken prior to Spring 2008</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Personal Finance</b> 400 or higher <i>Exam taken Spring 2008 or after</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Business Mathematics</b> 50 or higher <i>Exam taken prior to Fall 2009</i>	<b>Area A2 &amp; Math Competency</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Business Mathematics</b> 400 or higher <i>Exam taken Fall 2009 or after</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Astronomy</b> 50 or higher	<b>Area B</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Here's to Your Health</b> 50 or higher	<b>Health Education</b> 3 semester units	N/A	N/A	N/A	N/A
<b>Environment and Humanity: The Race to Save the Planet</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A

## DANTES Subject Standardized Test (DANTES/DSST)

EXAM AND REQUIRED SCORE	CITY, MESA, MIRAMAR DEGREE (MAJOR / GE)*	CSU GE CERTIFICATION	CSU - UNITS TOWARD TRANSFER	IGETC CERTIFICATION	UC - UNITS TOWARD TRANSFER
<b>Principles of Physical Science I</b> 50 or higher	<b>Area B</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Physical Geology</b> 50 or higher	<b>Area B</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Technical Writing</b> 50 or higher	3 semester units	N/A	N/A	N/A	N/A
<b>Ethics in America</b> 50 or higher <i>Exam taken prior to Spring 2008</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Ethics in America</b> 400 or higher <i>Exam taken Spring 2008 or after</i>	3 semester units	N/A	N/A	N/A	N/A
<b>Introduction to World Religions</b> 50 or higher <i>Exam taken prior to Spring 2008</i>	<b>Area C</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Introduction to World Religions</b> 400 or higher <i>Exam taken Spring 2008 or after</i>	<b>Area C</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
<b>Principles of Public Speaking</b> 50 or higher	<b>Area A2</b> 3 semester units (3 units GE credit)	N/A	N/A	N/A	N/A
* Credit may not be awarded for exams which duplicate credit for the same content earned through other means.					
To request an official DANTES transcript, write to: PROMETRIC ATTN: DSST Program, 1260 Energy Lane, St. Paul, MN 55108 Phone: 877-471-9860 (toll free) or 651-603-3011 or request transcripts at <a href="http://getcollegecredit.com/resources">http://getcollegecredit.com/resources</a>					

### Credit by Examination designed and approved by individual disciplines

The term "examination" means any written, oral or performance standards determined by the individual departments. Students must meet specific criteria to be eligible for credit by examination. Approved list of courses and forms are available in the College Evaluations Office.

### Credit for non-college credit vocational courses

Students who complete non-college credit articulated courses (SDUSD/SDCCD) that are equivalent in subject matter, content, educational objectives, length of course, and performance standards and pass a college faculty approved examination for the course offered by the college may have these courses converted to college credit. Additional information is available in the Evaluations Office.

## Academic Information For Veterans And Military Servicemembers

### Acceptance and Application of Military Credit

San Diego City, Mesa, and Miramar Colleges apply credit for educational experience completed during military service toward the associate degree in accordance with the associate/baccalaureate credit recommendations contained in "A Guide to the Evaluation of Educational Experiences in the Armed Services" published by the American Council on Education (ACE). Students must submit documentation of educational experiences during military service. Acceptable documents include:

- AARTS or SMART Transcript
- DD-214
- DD-295
- NAV/PERS 1070/604
- DD-2586
- National Guard Bureau (NGB) Form 22E
- Coast Guard Institute
- Community College of the Air Force (CCAF)

Students who have completed at least six months of continuous active U.S. military service have fulfilled the following degree requirements:

- 4 units of credit towards the associate degree
  - The Health Education requirement
  - The Physical Education requirement (both courses)
- The California State University General Education-Breadth Pattern (CSU GE) Area E requirement.

Other educational experiences during military service may also fulfill additional major, general education, or elective degree requirements. More specific information is available in the San Diego Community College District Evaluations Office.

### Service Members Opportunity Colleges System (SOC)

San Diego City, Mesa, and Miramar Colleges are members of the Service members Opportunity Colleges (SOC) Consortium. As members, the colleges provide educational assistance to active duty service members and agree to accept credit for educational experiences during military service as recommended by the American Council on Education (ACE). In addition, the colleges accept credit from other non-traditional sources such as

DANTES and CLEP examinations. The San Diego Community College District is committed to military personnel who may choose to participate in the SOCNAV/SOCMAR Program network through the campuses of San Diego City and San Diego Miramar Colleges. SOCNAV/SOCMAR was established to better serve highly mobile service members and their families. For more information on these programs, contact the Military Education advisor at the following locations:

Naval Base San Diego (32nd St.)	619-233-5617
Marine Corps Recruit Depot (MCRD)	619-295-9974
Marine Corp Air Station Miramar (MCAS)	858-536-4329

### U.S. Air Force and U.S. Army ROTC Programs

Under the provisions of a special agreement, students may participate in the Army or Air Force Reserve Officers Training Program (ROTC) at SDSU. San Diego City, Mesa and Miramar College students may enroll and attend ROTC classes at SDSU by contacting the SDSU Military Science Department 619-594-5545. Financial assistance may also be available. The credits earned in these classes may be transferred as electives to meet the degree requirements of City, Mesa and Miramar Colleges.

### Responsibility for Meeting Requirements

Each student must assume responsibility for compliance with the regulations of the college set forth in this catalog, for satisfying prerequisites for any course, and for selecting courses which will facilitate attainment of educational objectives. The college does not assume responsibility for misinterpretation of policies and procedures as presented in this catalog. Counselors and advisors are available to assist in planning students' programs. Any questions or doubts concerning this catalog material should be referred to the Office of the Vice President, Student Services.

### Petition for Exceptions

Petitions for exceptions to graduation requirements, substitutions, or waiver of requirements are filed with the Evaluations Office (MV-20). All petitions are acted upon by the appropriate college committees/offices.

## Statement of Open Courses

It is the policy of the San Diego Community College District that, unless specifically exempted by statute, every course, section, or class offered by the District and reported for state aid shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets course prerequisites.

## Academic Accommodations for Students with Disabilities

### (Board of Trustees Policy - BP 3105)

The San Diego Community College District (SDCCD) is committed to all provisions of Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990 and Section 508 of the Rehabilitation Act of 1973. The fundamental principles of nondiscrimination and accommodation in academic programs provide that:

1. No student with a qualified disability shall, on the basis of the disability, be excluded from participation in, be denied the benefit of, or otherwise be subjected to discrimination under any post-secondary education activity or program; and
2. Reasonable accommodations to academic activities or requirements shall be made as are necessary to ensure that such requirements do not discriminate or have the effect of discrimination on a student with a qualified disability; and
3. The institution shall create an educational environment where students with disabilities have equal access to instruction without compromising the essential components of the course, educational program or degree.

The intent of this policy is to insure compliance with state and federal laws. SDCCD Procedure 3105.1 is intended to provide consistent and fair review of all academic adjustments requests and dispute resolution.

Students with verified disabilities who may require academic adjustments or auxiliary aids are strongly recommended to contact the Disability Support Programs and Services (DSPS) Department and complete orientation procedures well before classes begin to ensure timely provision of services. Students are encouraged to identify themselves to the appropriate instructors to discuss the details

and timelines necessary to provide appropriate accommodations. Students enrolled in on-line courses are encouraged to contact the college DSPS Office to request academic accommodation. Questions regarding academic accommodations may also be directed to the college 504 Officer, Pamela Chapman at 619-388-2254 (Room F-208A).

## Debt Owed to the College

California Education Code Section 72237 and Title 5 Section 54640 state that grades, transcripts, diplomas, and registration privileges, or any combination thereof, shall be withheld from any student or former student who has been provided with written notice that he or she has failed to pay a proper financial obligation. Any item(s) withheld shall be released when the student satisfactorily meets the financial obligation. A service fee may be charged for all delinquent loans; any service fee would be determined by the total cost required to collect the delinquent loans.

## Audit Policy

Auditing courses is not permitted under any circumstances. Students must be officially enrolled in all classes which they attend.

## Exclusion from Classes

A student may be excluded from class or the college whenever the student:

1. Exhibits behavior which interferes with the educational process. An instructor may remove a student from two class sessions for disruptive behavior. (Refer to BP 3100: Student Rights, Responsibilities and Administrative Due Process); or
2. Is found to have a communicable disease which requires isolation pursuant to a directive from the County Department of Public Health.

## Minor Children on Campus

Minor children who are not enrolled are not permitted in any classroom at any time.

Minor children who are not enrolled are not to be left unattended at any time while on the campus.

## Student Right to Know

In compliance with the Student-Right-to-Know and Campus Security Act of 1990, it is the policy of our college district to make available its completion and transfer rates for all certificate, degree and transfer seeking first-time, full-time students who began in Fall 2007. These rates do not represent the success rates of the entire student population at the college, nor do they account for student outcomes occurring after this three-year tracking period. The completion and transfer rates are listed below:

	Completion Rates	Transfer-Out Rates
City	15.15%	15.45%
Mesa	23.39%	22.55%
Miramar	28.44%	15.43%

## Nondiscrimination Policy

### (Board of Trustees Policy-BP3410)

The San Diego Community College District has a policy which prohibits discrimination in accordance with state and federal laws. Students wishing to file complaints based upon discrimination should contact the campus Equal Employment Opportunity (EEO) Site Compliance Officer. Appeals may be made to the District Equal Opportunity & Diversity Officer at the District Administrative Office, 3375 Camino del Rio South, San Diego, CA 92108.

Students with disabilities who want to file a grievance under Section 504 of the 1973 Federal Rehabilitation Act should contact Pam Chapman in F-208A at 619-388-2254. Students who want to file a grievance under the Americans with Disabilities Act (ADA) should contact the campus Equal Employment Opportunity (EEO) Site Compliance Officer Sondra Frisch at 619-388-2989.

## Free Speech

Free speech areas have been designated on the college campuses to maximize the opportunity for free discussion and expression, while minimizing the potential for disruption of classroom and college activities.

Information concerning free speech areas is available in the office of the Dean of Student Affairs office in H-500.

## Gender Equity

The Gender Equity Coordinator facilitates the development or updating of the campus Gender Equity Plan in cooperation with committees that are responsible for equity concerns. The Site Compliance Officer Sondra Frisch can be reached at 619-388-2989 in Room G-305.

## Additional Information on Policies

Nondiscrimination	A-111B	619-388-2440
Sex Discrimination	A-111B	619-388-2440
Sexual Harrassment	A-111B	619-388-2440
Academic Accomodation/504 Officer	F-208A	619-388-2254
Student Right to Know	H-500	619-388-2699
Substance Abuse	L-504	619-388-2774
Crime Awareness	Q-100	619-388-2749

## Title IX. Prohibiting Sex Discrimination in Education

San Diego Mesa College is committed to support all regulations under Title IX. "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance."

For further directions or inquiries, please contact the Site Compliance Officer.

## Policy Prohibiting Sexual Harassment

It is the policy of the San Diego Community College District to provide an educational environment that is free of sexual advances, requests for sexual favors, and other verbal or physical conduct or communications that constitute sexual harassment as defined and prohibited by federal and state statutes. Anyone with questions about this policy or anyone who wishes to file a complaint should contact the Dean of Student Affairs, the College EEO Officer, or the District Diversity and EEO Compliance Manager. The Vice President, Student Services is also available to provide assistance in matters of alleged sexual harassment.

Procedures for filing a formal complaint of sexual harassment are described in Administrative

Procedure 3435 Copies of this procedure may be obtained from the Site Compliance Officer, Sondra Frisch, at 619-388-2989, G-305.

## Drug and Alcohol Use

The San Diego Community College District is committed to providing a drug free environment. Any type of drug use, including alcohol, is dangerous and potentially life threatening. Drugs and alcohol adversely affect the body, mind and behavior. The effects vary from person to person and from usage to usage. Even low doses of drugs and alcohol can impair judgment and coordination. If you use drugs or alcohol, you risk overdose, accidents, dependence, ill health, as well as legal, financial and personal problems. The federal laws against drugs are divided into two categories: possession and distribution. The penalties are severe depending upon the type of drug, quantity of the drug, and any prior offenses. Possession will earn up to one year in prison and a \$5,000 fine. Distribution will earn up to life in prison and an \$8 million fine. State laws vary and may be more severe. Board of Trustees Policy BP 3100-Code of Conduct-states that use, possession, or distribution of narcotics or other controlled substances is prohibited while on the college premises or at college sponsored events. A student may be suspended or expelled for violation of this policy. A complete list of legal sanctions is available in the Vice President, Student Services Office. The colleges provide information on drug and alcohol treatment and prevention through seminars, courses, and the Student Health Services. Contact Student Health Services at 619-388-2774 or the Vice President, Student Services Office at 619-388-2678 for additional information.

## Mesa College is a Smoke-Free Campus

In an effort to prevent the serious health risks associated with exposure to second hand smoke, students, faculty, staff and visitors who choose to use tobacco products on the Mesa College Campus may do so outside the perimeter of the campus. Smoking along the campus perimeter/canyon rim is not permitted. Note that smoking is not permitted on adjacent sidewalks or in parking lots. Please contact Mesa College's Student Health Services Office for materials, help and information, including a free smoking-cessation program. Call 619-388-2774 or stop by L-504.

## Smoking Regulation

This procedure is applicable to all District facilities. It implements the Board policy of consonance with the City of San Diego's ordinance regulating smoking in public facilities.

The success of this program is dependent upon the voluntary cooperation of the smoking and nonsmoking public. The District recognized the fact that individual health can be impaired both by the direct and by the secondary effects of smoking. The District, therefore, discourages the practices of smoking, but provides for opportunities for those who smoke as long as there is no impact upon the rights and health of non-smokers.

It is not the intent that the program be a prohibition of smoking, rather it is intended to recognize the individual rights of the smoking/nonsmoking public.

The posting of no smoking signs without the corresponding designation of smoking permitted areas is not in consonance with the intent of the procedure.

All campuses of the San Diego Community College District operate in compliance with Government Code 7597. As required by this law, City College, Mesa College, and Continuing Education Centers will not permit smoking within 20 feet (25 feet at Miramar College) of main entrances to buildings, exits, or any operable windows. City and Mesa College are smoke-free campuses. Hourglass Park at Miramar, including the pool and Field House, is a smoke-free facility. In addition, smoking is prohibited inside all public buildings. The colleges and centers will enforce the new ordinance at all times. Additional information is available in the College Police Office on each campus.

- Smoking is not permitted in District facilities which are open to the public and used as: Classrooms, Meetings Rooms, Theatres, Restrooms, Libraries, Cafeterias, Bookstores, Service Lines, Elevators, and Faculty Offices.
- Smoking is not permitted in vehicles used for transportation of students.
- Site presidents/provost/facility managers may designate facilities or areas in addition to those listed above as NO SMOKING facilities or areas.
- Each site determines areas for smoking and areas for nonsmoking in accordance with the SDCCD procedure and San Diego Municipal Code.

- Signs indicating SMOKING PERMITTED and NO SMOKING should be posted conspicuously in each area.
- Site presidents/provost/facility managers may designate areas within NO SMOKING areas where smoking is permitted, under the general guidance of San Diego Municipal Code.

For complete Smoking Policy, please reference SDCCD Procedure 0505.2.

## Crime Awareness and Campus Security

Q-100

619-388-2749

The San Diego Community College District Annual Security Report, titled "Safe and Sound, a guide to safety and security in the San Diego Community College District", includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by the San Diego Community College District; and on public property within, or immediately adjacent to and accessible from, the campus. The report also includes institutional policies concerning campus security, such as policies on drug use, crime prevention, the reporting of crimes, sexual assault and other matters. You can obtain a copy of this report by contacting any campus admissions office, Vice President of Student Services (I-422) office or college police business office. At anytime you may view a full copy by accessing the following website: <http://police.sdccd.edu/crimestats.htm>.

Pursuant to State and Federal Law information concerning registered sex offenders enrolled or employed by the college may be obtained through the College Police Office.

## Elder and Dependent Adult Abuse

An elder is defined as a resident of the State of California who is 65 years of age or older; or a dependent adult, defined as a resident of the State of California between the ages of 18 and 64 years, who has a physical or mental limitation that restricts his or her ability to carry out normal activities or to protect his/her rights.

Post-secondary educational institutions serving dependent adults are designated as mandated reporters with an individual, personal responsibility to comply with the reporting requirements.

Any mandated reporter, who, in his or her professional capacity, or within the scope of his or her employment, has observed or had knowledge of an incident that reasonably appears to be physical abuse, abandonment, isolation, financial abuse, or neglect, or is told by an elder or dependent adult that he or she has experienced behavior constituting physical abuse, abandonment, isolation, financial abuse, or neglect, or reasonably suspects abuse shall report the known or suspected instance of abuse immediately to Adult Protective Services at 1-800-510-2020.

## Copyright Responsibility

Any duplication request of copyrighted materials for use in the college's instructional programs must be accompanied by written permission from the copyright owner. Any duplication of copyrighted materials by student, staff, or faculty is to be for the sole purpose of private scholarly study. Since the liability for infringement of statutory or common-law copyright occurs during misuse of duplicated materials, the duplicated copies cannot be sold or distributed. A designated portion of the duplicated copy cannot be included in another's work without the written permission of the copyright owner. All copyright responsibility is assumed by the individual requesting the duplication. San Diego Mesa College, its agents, representatives, and employees are held harmless against all claims, suits, damage costs, and expenses of charges of statutory or common-law infringement resulting from the college's efforts to provide services, materials, and equipment to the requester.

# Academic Freedom & Freedom of Expression

The San Diego Community College District is committed to an academic environment that embraces the principles of academic freedom and freedom of expression. This commitment is based upon the value that free expression is essential to excellence in teaching, learning, critical inquiry and service to the community.



## 1. ACADEMIC FREEDOM

- a. Academic freedom affords the faculty the right to speak freely and write, without unreasonable restrictions or prejudices.
- b. In accordance with the doctrine of academic freedom, faculty have the following fundamental rights:
  1. Collective primacy in designing and approving curriculum and instructional methods;
  2. Individual faculty determination of instructional materials, course content, and student evaluation methods, in concert with colleagues, so as to assure coherence in instruction and the maintenance of academic standards;
  3. Individual faculty freedom to discuss subject matter of the course, as appropriate to the standards of the discipline and academic community, even when that material is controversial;
  4. Individual faculty authority to evaluate enrolled students on the basis of the academic merit of the students' performance;
  5. Individual faculty choice of research topics and methods of investigation—subject to professional and peer-determined standards—as well as unconditional freedom to publish results; and
  6. Faculty participation in shared governance, curriculum review, and accreditation processes.

## 2. FREEDOM OF EXPRESSION

- a. Freedom of expression affords the faculty, staff and students the right to speak and write freely in accordance with the constitutional protections of free speech.
- b. Faculty, staff and students have the following responsibilities:
  1. The District shall protect the rights of faculty to express their views in the classroom that pertain to class content. While it is understood that controversy is often at the core of inquiry, such

controversy should be addressed in a mutually respectful manner.

2. The District shall protect the rights of faculty, staff and students to speak freely on matters of public concern.
3. Faculty, staff and students are free to explore a wide range of views and judge on matters of public concern.
4. As outlined in District policies and procedures, faculty, staff and students have responsibilities which are based upon principles of fairness, integrity, confidentiality, safety, professionalism, and respect for others.
5. Members of the academic community have the right to participate in governance and to join or form organizations without fear of retaliation.

## Volunteer/ Visitor Conduct Expectations

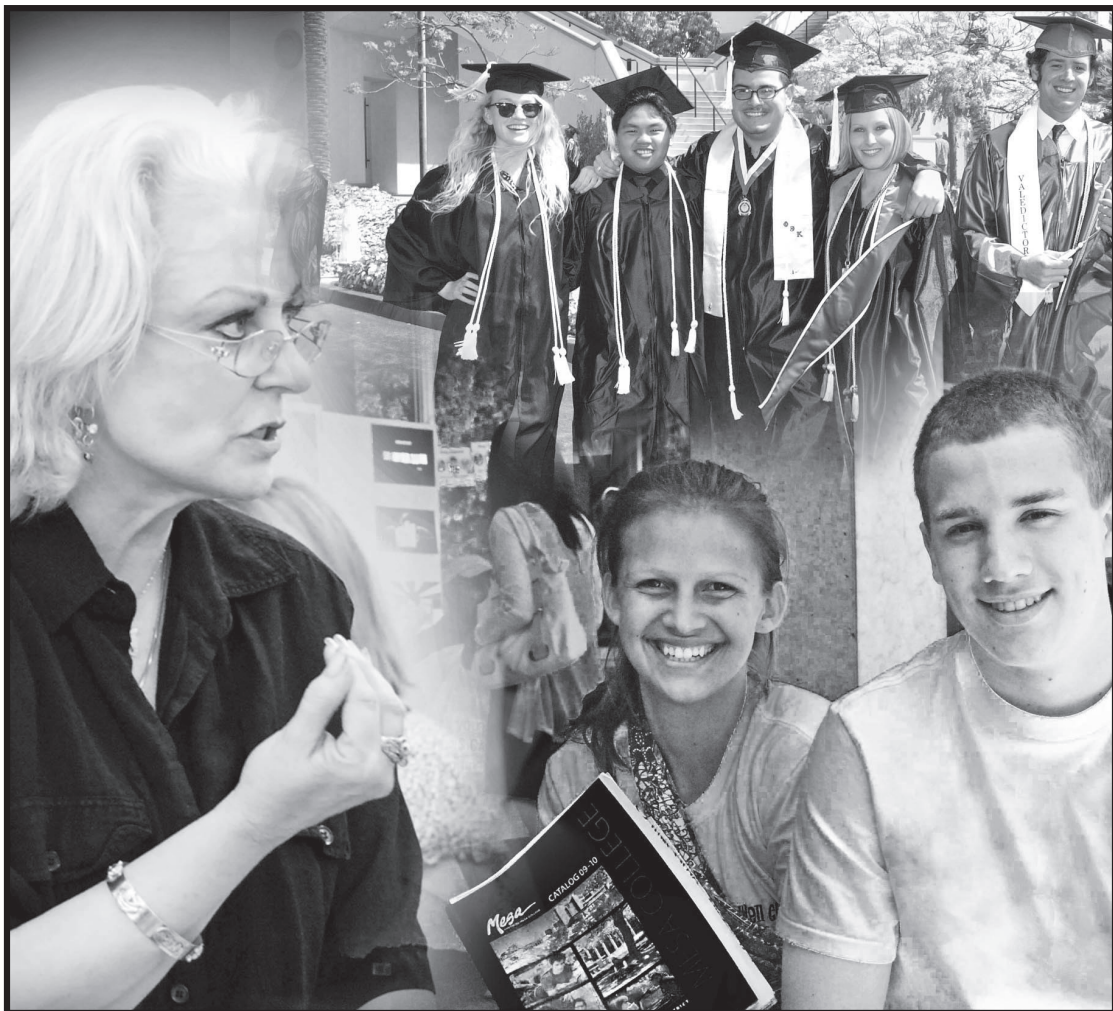
In accordance with Procedure 3100.4, all visitors and volunteers are expected to adhere to the policies and procedures of the San Diego Community College District, as well as all federal, state and local laws. Visitors and volunteers will be subject to removal from classrooms, service areas, and activities of the campus for any of the following acts (but not limited to) while on campus. Any violation may be subject to permanent removal from campus. Violations of state, federal, or local laws or ordinances, while on district premises, will be addressed by college police in accordance with the California Penal Code.

- Act or threat of damage to or theft of property belonging to or located on District-controlled property or facilities.
- The physical or verbal intimidation or harassment of such severity or pervasiveness as to have the purpose or effect of unreasonably interfering with a student's academic performance, or a District employee's work performance, or of creating an intimidating, hostile, or offensive educational or work environment.

- Physical or verbal disruption that is incompatible with instructional or student services activities, administrative procedures, public service functions, authorized curricular or co-curricular activities or prevention of authorized guests from carrying out the purpose for which they are on campus when such a disruption occurs inside of any classroom or facility or in such proximity as to appear reasonably likely to interfere with activities inside of the classroom or facility, or the substantial and material disruption of any other regular campus activity which occurs in any other portion of District-controlled property.
- Disorderly, lewd, indecent or obscene conduct or expression or habitual profanity or vulgarity; any expression which is obscene, libelous or slanderous according to current legal standards or which so incites students as to create a clear and present danger of the commission of unlawful acts, or the substantial disruption of the orderly operation of the community college. (Ed. Code 76120)
- Assault, or battery upon a student or district personnel on district premises or at any time or place while under the authority of District personnel.
- Possession of weapons, explosives, unlicensed dangerous chemicals or objects which may be used as weapons or to threaten bodily harm, as specified in the California Penal Code or other applicable laws.

Failure to comply with the reasonable directions of staff members of the district who are acting within the scope of their employment. Continued and willful disobedience or open and persistent defiance of the authority of district personnel, provided such authority is related to district activities or college/center attendance.

# Academic Requirements



# The Associate Degree

On the recommendation of the faculty, the colleges of the San Diego Community College District award the Associate in Arts degree or the Associate in Science degree.

The Associate in Arts degree is awarded in the social sciences, humanities, the arts, and similar disciplines. The Associate in Science degree is awarded in engineering, physical and biological sciences, and occupational curricula.



## All Degrees Have the Following Requirements in Common

### Minimum Units in Residence

A minimum of 12 semester units must be completed in residence at the college granting the degree.

The 12-unit in residence requirement is effective for all degrees awarded regardless of catalog year.

### Major/Area of Emphasis Requirements

- Eighteen semester units or more are required.
- Six semester units must be completed at City, Mesa, or Miramar College. Refer to the Degree Curricula and Certificate Programs section of this catalog for specific requirements for each major.
- Only one course in a student's major discipline may be used to meet the San Diego Community College District's general education requirements with the exception of Liberal Arts and Sciences degrees.

### Recency of Coursework Limitation:

Academic departments may require that courses for the major be completed within a specified period of time prior to the granting of the Associate Degree, Certificate of Achievement, or Certificate of Performance. Students with questions about the applicability of previous coursework are advised to consult the Department as early as possible.

# Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Each AA-T or AS-T is accepted by some but not all CSU campuses. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree in that major. Please see a counselor and [www.cccco.edu/1440/](http://www.cccco.edu/1440/) for more information.

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**NOTE: At the time of the 2011-2012 catalog printing, this degree is not accepted by San Diego State University. CSU San Marcos accepts this degree only for certain specific majors with limitations. There may be other CSU campuses which do not accept this degree.**

**Students intending to transfer to a CSU should consult a counselor and visit [www.assist.org](http://www.assist.org) for guidance on appropriate transfer coursework.**

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## Degree Requirements

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

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
3. Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major (see list above). All courses in the major must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no pass" basis.
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE; see page 117 for more information); OR the Intersegmental General Education Transfer Curriculum pattern (IGETC; see page 109 for more information).

# Associate in Arts and Associate in Science Degree Requirements

## Minimum 60 Units Required

All degrees require a minimum of 60 semester units.

## Grade Point Average (GPA) and Minimum Grade Requirements

- Effective 2009-2010 catalog year (and each year thereafter), students must earn a grade of "C" or better in courses required for the major.
- ~~Students enrolled in occupational and health occupation programs must earn a grade of "C" or better in courses required for the major.~~
- A grade point average of at least 2.0 (a "C" average) is required in the curriculum upon which the degree is based.

## District Competencies

District competencies in reading, written expression, and mathematics (See Mesa College catalog page 85)

## Select One of the Following Four General Education Options:

- **Option 1**—San Diego Community College District General Education **AND** District Requirements. (See Mesa College Catalog page 85)
- **Option 2**—CSU General Education Breadth (CSU GE Pattern). (See Mesa College Catalog page 117)
- **Option 3**—Intersegmental General Education Transfer Curriculum (IGETC) pattern. (See Mesa College Catalog page 109)
- **Option 4**—San Diego Community College District General Education Requirements. (See Mesa College Catalog page 89). Students selecting this option should meet with a counselor to determine the appropriate General Education courses for their individual transfer goals. **NOTE:** Option 4 is only available for the following Mesa Liberal Arts and Sciences degrees designed for transfer students. Available emphases include:
  - Arts Studies
  - Business Studies

- Language Arts and Humanities Studies
- Mathematics and Pre-Engineering Studies
- Science Studies
- Social and Behavioral Science Studies

Students who plan to transfer to a four-year institution should review the Transfer Requirements section of this catalog.

## District Requirements (Option 1)

( ) Colleges in parenthesis indicate where the course is approved for District Requirements.

C—City College  
M—Mesa College  
MMR—Miramar College

The following information is effective for students graduating under the 2009-2010 catalog year or each term thereafter and is subject to change. Please contact the Counseling Department for updates.

### 1. Competence in Reading and Written Expression

Complete one course with a grade of "C" or better from General Education Requirements Area A.1 Language and Rationality, English Composition.

**Note: The course selected to meet this requirement may also be used to meet the general education requirement for English Composition.**

### 2. Competence in Mathematics

Competence is demonstrated by:

- a. Placement in Assessment Skill Level M50 or higher on SDCCD mathematics assessment

**OR**

- b. Completing one of the following courses with a grade of "C" or better:

MATH 84\* Practical Geometry (M)  
MATH 85\* Practical Career Mathematics (C,M)  
MATH 96 Intermediate Algebra and Geometry (C,M,MMR)  
MATH 98\* Technical Intermediate Algebra and Geometry (C)

**OR**

- c. Completing, with a grade of “C” or better, any other course for which one of the above listed courses is a prerequisite or any math course with a number higher than 100.

\* These courses cannot be used to meet the prerequisite for any transfer-level mathematics course.

**Note: The course selected to meet these requirements may also be used to meet the general education requirement for Communications and Analytical Thinking.**

### 3. American Institutions/California Government

Students are required to complete the United States History, Constitution and American Ideals before being awarded an associate degree. This requirement may be fulfilled by completing any combination of two classes that, when combined, fulfill areas: US-1, US-2, and US-3. A course may be used to fulfill more than one area.

**A check mark [ ✓ ] indicates course has been approved to meet the requirement for the area.**

Course	Area US-1: Development of American Institutions	Area US-2: US Constitution	Area US-3: California State & Local Governments
^BLAS 140A History of the United States, Black Perspectives (C, M, MMR)	✓	✓	
^BLAS 140B History of the United States, Black Perspectives (C, M, MMR)	✓		✓
^CHIC 141A U.S. History from a Chicano Perspective (C, M)	✓	✓	
^CHIC 141B U.S. History from a Chicano Perspective (C, M)	✓		✓
HIST 109 History of the United States I (C,M,MMR)	✓	✓	
HIST 110 History of the United States II (C,M,MMR)	✓		✓
^HIST 115A History of the Americas I (C,M)	✓	✓	
^HIST 115B History of the Americas II (C,M)	✓		✓
^HIST 123 U.S. History from the Asian Pacific American Perspective (C,M)	✓		✓
HIST 141 Women in United States History I (C,M, MMR)	✓	✓	
HIST 142 Women in United States History II (C,M, MMR)	✓		✓
^HIST 150 Native Americans in U.S. History (M,MMR)	✓	✓	
^HIST 151 Native Americans in U.S. History (M,MMR)	✓		✓
HIST 175 California History (M)			✓
POLI 102 The American Political System (C,M, MMR)		✓	✓

**NOTES:**

- **Three units of coursework used to fulfill the American Institutions/California Government requirement may also be used to fulfill a general education requirement. However, if a six-unit sequence or combination is selected to fulfill the American Institutions requirement, only three (3) units may be used for general education credit.**
- **Courses designated with a carat (^) may also be used to fulfill the District Multicultural studies requirement.**
- **Completion of the Advanced Placement examination in U.S. History with a score of 3 or higher will satisfy the requirement for the CSU American Institutions Area US-1 only.**
- **Completion of the Advanced Placement examination in U.S. Government & Politics with a score of 3 or higher will satisfy the requirement for Area US-2.**
- **Students who have completed the American Institutions requirement except for the California government portion must complete one course approved in Area US-3**

#### 4. Health Education

This requirement is met by completing Health Education 101: Health and Lifestyle, three units.

**Note: This requirement is waived for students who earn degrees in Nursing Education and Physical Therapist Assistant. U.S. Veterans and active duty U.S. military personnel may be granted two units of college credit to fulfill the Health Education Requirement if service has been continuous for at least six months. Copies of form DD-214 or DD-295 or SMART or AART or CCAF Transcript covering all periods of military service must be on file in the Records Office.**

#### 5. Physical Education

Students must complete two activity courses. Physical Education courses numbered below 240 are acceptable, except for Physical Education 150. Dance courses are also acceptable, except for DANC 127, 181, 183 and 253. Administration of Justice 147, 148, 323, 381 and 382 are also acceptable. Fire Protection Technology 100D and 150A are also acceptable. Students with physical conditions which prevent participation in regular physical education activity classes must file a physician's statement with the College Evaluations Office. Adapted Physical Education classes are available. A Physician's medical release form is required.

**Note: U.S. Veterans and active duty U.S. military personnel may be granted two units of college credit to fulfill the Physical Education requirement if service has been continuous for at least six months. Copies of form DD-214 or DD-295 or SMART or AART or CCAF Transcript covering all periods of military service must be on file in the Records Office.**

#### 6. Multicultural Studies

Students may satisfy the District multicultural studies graduation requirement by satisfactorily completing a course related to the culture of one or more of the ethnic groups which are represented in American society. The course shall include a focus on the role of men and women in the origin, development, and current status of these cultures.

**Note: Each student seeking the Associate Degree must complete a three-unit multicultural studies course selected from the general education courses marked with a ^ indicating that it meets the Multicultural Requirement. The three units may be applied to the 18 units required in general education.**

This requirement is met by completing one of the following courses (these courses are also on the District General Education list).

- ^ ADJU 106 Diversity and Community Relations (MMR)
- ^ AMSL 104 Introduction to Deaf Culture (M)
- ^ ANTH 103 Introduction to Cultural Anthropology (C,M,MMR)
- ^ ANTH 200 Introduction to North American Indians (M)
- ^ ANTH 210 Introduction to California Indians (C,M)
- ^ ARTF 113 Arts of Africa, Oceania, and the Americas (M,MMR)
- ^ ARTF 115 African Art (C,M)
- ^ ARTF 120 Native American Art (M)
- ^ BLAS 104 Black Psychology (C,M)
- ^ BLAS 110 African American Art (C,M)
- ^ BLAS 115 Sociology from a Black Perspective (C)
- ^ BLAS 116 Contemporary Social Problems from a Black Perspective (C,M)
- ^ BLAS 120 Black Music (C,M)
- ^ BLAS 125 Dynamics of the Black Community (M)
- ^ BLAS 130 The Black Family (C,M)
- ^ BLAS 135 Introduction to Black Politics (C)
- ^ BLAS 140A History of the U.S., Black Perspectives (C,M,MMR)
- ^ BLAS 140B History of the U.S., Black Perspectives (C,M,MMR)
- ^ BLAS 145A Introduction to African History (C,M)
- ^ BLAS 145B Introduction to African History (C)
- ^ BLAS 150 Black Women in Literature and the Media (C,M)
- ^ BLAS 155 Afro-American Literature (C,M)
- ^ CHIC 110A Introduction to Chicano Studies (C,M)
- ^ CHIC 110B Introduction to Chicano Studies (C,M)
- ^ CHIC 135 Chicana/o Literature (C,M)
- ^ CHIC 141A United States History from a Chicano Perspective (C,M)
- ^ CHIC 141B United States History from a Chicano Perspective (C,M)
- ^ CHIC 190 Chicano Images in Film (C,M)
- ^ CHIC 210 Chicano Culture (C,M)
- ^ CHIL 141 The Child, Family and Community (C,M,MMR)
- ^ COMS 180 Intercultural Communication (C,M,MMR)
- ^ DRAM 109 Theatre and Social Issues (C)
- ^ ENGL 202 Introduction to Linguistics (C,M)

^ ENGL 230	Asian American Literature (M,MMR)
^ FILI 100	Filipino American Experience (M,MMR)
^ GEND 101	Introduction to Gender Studies (C)
^ GEOG 102	Cultural Geography (C,M,MMR)
^ HIST 115A	History of the Americas I (C,M)
^ HIST 115B	History of the Americas II (C,M)
^ HIST 120	Introduction to Asian Civilizations (C,M,MMR)
^ HIST 121	Asian Civilizations in Modern Times (C,M,MMR)
^ HIST 123	U. S. History from the Asian Pacific American Perspective (C,M)
^ HIST 130	The Modern Middle East (M)
^ HIST 150	Native Americans in United States History (M,MMR)
^ HIST 151	Native Americans in United States History (M,MMR)
^ INTE 125	History of Decorative Arts (M)
^ MUSI 109	World Music (C,M,MMR)
^ NUTR 153	Cultural Foods (M)
^ PHIL 125	Philosophy of Women (C,M)
^ POLI 103	Comparative Politics (C,M,MMR)
^ POLI 140	Contemporary International Politics (C,M,MMR)
^ SOCO 101	Principles of Sociology (C,M,MMR)
^ SOCO 110	Contemporary Social Problems (C,M,MMR)
^ SOCO 125	Sociology of the Family (C,M)
^ SOCO 150	Sociology of Latinos/Latinas (C)
^ SOCO 223	Globalization and Social Change (C,M,MMR)

## General Education Outcomes Defined

General Education courses should contribute to the broad education of career technical and transfer students in the areas of critical thinking, writing, and oral communication skills, understanding of and the ability to use quantitative analysis, and awareness of the arts and humanities; and of the physical, social and behavioral sciences as they affect one's interaction with the diverse local and global communities. General Education Requirements Title 5: Section 55806

- a. Natural Sciences.** Courses in the natural sciences are those that examine the physical universe, its life forms, and its natural phenomena. To satisfy the General

Education Requirement in natural sciences, a course shall be designed to help the student develop an appreciation and understanding of the scientific method, and encourage an understanding of the relationships between science and other human activities. This category would include introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, meteorology, oceanography, physical geography, physical anthropology, physics and other scientific disciplines.

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

- demonstrate an understanding and appreciation of the scientific method
- express an understanding of the relationships between science and other human activities
- examine the natural physical world and its life forms in a variety of courses
- utilize critical thinking skills in a variety of scientific applications

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

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

- express understanding of how people act and have acted in response to their societies and the natural environment



- articulate how societies and social subgroups operate in specific historical and contemporary contexts
- use methods of inquiry and measurement appropriate to the particular discipline being studied

**c. Humanities.** Courses in the humanities are those which study the cultural activities and artistic expressions of human beings. To satisfy the general education requirement in the humanities, a course shall be designed to help the student develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves, help the student develop aesthetic understanding and an ability to make value judgments. Such courses could include introductory or integrative courses in the arts, foreign languages, literature, philosophy, and religion.

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

- express understanding and appreciation of varieties of cultural and artistic expression
- articulate an understanding of the complex relationships between the arts and their cultural, historical, and economic contexts
- evaluate the various elements of artistic works

**d. Language and Rationality.** Courses in language and rationality are those which develop for the student the principles and applications of language toward logical thought, clear and precise expression and critical evaluation of communication in whatever symbol system the student uses.

1. English Composition. Courses fulfilling the written composition requirement shall be designed to include both expository and argumentative writing.
2. Communication and Analytical Thinking. Courses fulfilling the communication and analytical thinking requirement include oral communication, mathematics, logic,

statistics, computer languages and programming, and related disciplines.

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

- demonstrate an understanding of the principles of clear and coherent communication
- use verbal and non-verbal languages in a clear and precise manner
- develop logical and rational thinking skills while analyzing and communicating processes
- evaluate different quantitative and qualitative symbol expressions and systems

Ethnic Studies will be offered in at least one of the required areas.

## General Education Requirements (Option 4)

() Colleges in parenthesis indicate where the course is approved for General Education Requirements.

C—City College

M—Mesa College

MMR—Miramar College

^ Courses with carets fulfill District multicultural studies graduation requirement.

\* Courses with asterisks may satisfy more than one area and/or general education requirement but may not be counted more than once for this

Only one course in a student's major discipline may be used to meet the San Diego Community College District General Education Requirements.

The following information is based on 2011-2012 course offerings and is subject to change. Please contact the Counseling Department for updates.

The State of California requires the completion of a minimum of 18 units of general education with at least a 2.0 grade point average. One course must be selected from each of the following areas: English Composition; Communication/Analytical Thinking; the Sciences (Life or Physical, not both); Humanities; Social Sciences; and a sixth course chosen from any area.

## A. Language and Rationality

A minimum of three semester units, or four quarter units, must be completed. Choose one course from the following:

### 1. English Composition

ENGL 101	Reading and Composition (C,M,MMR)
ENGL 105	Composition and Literature (C,M,MMR)
ENGL 205	Critical Thinking and Intermediate Composition (C,M,MMR)

A minimum of three semester units, or four quarter units, must be completed. Choose one course from the following:

### 2. Communication and Analytical Thinking

BIOL 200	Biological Statistics (C,M)
BUSE 101	Business Mathematics (C,M,MMR)
CISC 150	Introduction to Computer and Information Sciences (C,M)
CISC 181	Principles of Information Systems (C,M,MMR)
COMS 99	Voice and Diction for Non-Native Speakers of English (C,MMR)
COMS 101	Voice and Articulation (C,M)
COMS 103	Oral Communication (C,M,MMR)
COMS 135	Interpersonal Communication (C,M,MMR)
COMS 160	Argumentation (C,M,MMR)
COMS 170	Small Group Communication (C,M)
^ COMS 180	Intercultural Communication (C,M,MMR)
GISG 104	Geographic Information Science and Spatial Reasoning (C,M)
MATH 84	Practical Geometry (M)
MATH 85	Practical Career Mathematics (C,M)
MATH 96	Intermediate Algebra and Geometry (C,M,MMR)
MATH 98	Technical Intermediate Algebra and Geometry (C)
MATH 104	Trigonometry (C,M,MMR)
MATH 107	Introduction to Scientific Programming (C)
MATH 107L	Introduction to Scientific Programming Lab (C)
MATH 115	Gateway to Experimental Statistics (C)
MATH 116	College and Matrix Algebra (C,M,MMR)

MATH 118	A Survey of Modern Mathematics (C,M,MMR)
MATH 119	Elementary Statistics (C,M,MMR)
MATH 121	Basic Techniques of Applied Calculus I (C,M,MMR)
MATH 122	Basic Techniques of Calculus II (C,M,MMR)
MATH 141	Precalculus (C,M,MMR)
MATH 150	Calculus with Analytic Geometry I (C,M,MMR)
MATH 151	Calculus with Analytic Geometry II (C,M,MMR)
MATH 181	Mecomtronics College Algebra and Trigonometry I (C)
MATH 182	Mecomtronics College Algebra and Trigonometry II (C)
MATH 183	Mecomtronics Calculus I (C)
MATH 184	Mecomtronics Calculus II (C)
MATH 210A	Concepts of Elementary School Mathematics I (C,M,MMR)
MATH 210B	Concepts of Elementary School Mathematics II (C,M,MMR)
MATH 245	Discrete Mathematics (C,M,MMR)
MATH 252	Calculus with Analytic Geometry III (C,M,MMR)
MATH 254	Introduction to Linear Algebra (C,M,MMR)
MATH 255	Differential Equations (C,M,MMR)
PHIL 100	Logic and Critical Thinking (C,M,MMR)
PHIL 101	Symbolic Logic (C,M,MMR)
PHIL 205	Critical Thinking and Writing in Philosophy (C,M,MMR)
PSYC 258	Behavioral Science Statistics (C,M,MMR)

## B. Natural Sciences

A minimum of three semester units, or four quarter units, must be completed. Choose one course from the following:

### 1. Life Sciences

ANTH 102	Introduction to Physical Anthropology (C,M,MMR)
ANTH 104	Laboratory in Physical Anthropology (C,M,MMR)
BIOL 100	Natural History - Environmental Biology-Lecture/Laboratory (M,MMR)
BIOL 101	Issues in Environmental Biology-Lecture/Laboratory (C)

BIOL 107	General Biology-Lecture/Laboratory (C,M,MMR)	CHEM 152L	Introduction to General Chemistry Laboratory (C,M,MMR)
BIOL 110	Introduction to Oceanography (C,M)	CHEM 200	General Chemistry I-Lecture (C,M,MMR)
BIOL 111	Cancer Biology (C)	CHEM 200L	General Chemistry I-Laboratory (C,M,MMR)
BIOL 115	Marine Biology (C,M,MMR)	CHEM 201	General Chemistry II-Lecture (C,M,MMR)
BIOL 120	The Environment of Man (M)	CHEM 201L	General Chemistry II-Laboratory (C,M,MMR)
BIOL 130	Human Heredity (C,M,MMR)	CHEM 231	Organic Chemistry I-Lecture (C,M,MMR)
BIOL 131	Introduction to Biotechnology (MMR)	CHEM 231L	Organic Chemistry I-Laboratory (C,M,MMR)
BIOL 160	Elements of Human Anatomy & Physiology-Lecture/Laboratory (M,MMR)	CHEM 233	Organic Chemistry II-Lecture (C,M,MMR)
BIOL 180	Plants and People (C,M,MMR)	CHEM 233L	Organic Chemistry II-Laboratory (C,M,MMR)
BIOL 205	General Microbiology (C,M,MMR)	CHEM 251	Analytical Chemistry (C,M,MMR)
BIOL 210A	Introduction to the Biological Sciences I-Lecture/Laboratory (C,M,MMR)	ENGN 110	Science for Technical Applications (C)
BIOL 210B	Introduction to the Biological Sciences II-Lecture/Laboratory (C,M,MMR)	GEOG 101	Physical Geography (C,M,MMR)
BIOL 215	Introduction to Zoology (C,M,MMR)	GEOG 101L	Physical Geography-Laboratory (C,M,MMR)
BIOL 230	Human Anatomy (C,M,MMR)	GEOL 100	General Geology (C,M,MMR)
BIOL 235	Human Physiology (C,M,MMR)	GEOL 101	General Geology-Laboratory (C,M,MMR)
BIOL 250	Introduction to Botany (M,MMR)	GEOL 104	Earth Science (C,M,MMR)
BIOL 255	California Plants (M)	MCTR 120A	Basic Physics for Technical Applications I (C)
BIOL 285	Tropical Biology Field Experience (MMR)	MCTR 120B	Basic Physics for Technical Applications II (C)
MEDA 55	Fundamentals Human Anatomy and Physiology (M)	PHYN 100	Survey of Physical Science-Lecture (C,M,MMR)
NUTR 150	Nutrition (M,MMR)	PHYN 101	Survey of Physical Science-Laboratory (C,M,MMR)
NUTR 155	Advanced Nutrition (M)	PHYN 120	Physical Oceanography (M,MMR)
PSYC 260	Introduction to Physiological Psychology (C,M,MMR)	PHYS 100	Introductory Physics Lecture/Laboratory (C,M)

## 2. Physical Sciences

ASTR 101	Descriptive Astronomy (C,M,MMR)	PHYS 125	General Physics (C,M,MMR)
ASTR 109	Practice in Observing-Laboratory (C,M)	PHYS 126	General Physics II (C,M,MMR)
ASTR 111	Astronomy Laboratory (C,M,MMR)	PHYS 180A	General Physics I (C,MMR)
CHEM 100	Fundamentals of Chemistry (C,M,MMR)	PHYS 180B	General Physics II (C,MMR)
CHEM 100L	Fundamentals of Chemistry-Laboratory (C,M,MMR)	PHYS 181A	General Physics Lab I (C,MMR)
CHEM 111	Chemistry in Society (C,M)	PHYS 181B	General Physics Lab II (C,MMR)
CHEM 111L	Chemistry and Society Laboratory (C,M)	PHYS 195	Mechanics (C,M,MMR)
CHEM 130	Introduction to Organic & Biological Chemistry (C,M,MMR)	PHYS 196	Electricity and Magnetism (C,M,MMR)
CHEM 130L	Introduction to Organic & Biological Chemistry-Laboratory (C,M,MMR)	PHYS 197	Waves, Optics and Modern Physics (C,M,MMR)
CHEM 152	Introduction to General Chemistry (C,M,MMR)		

## C. Humanities

A minimum of three semester units, or four quarter units, must be completed. Choose one course from the following:

AMSL 115	American Sign Language Level I (C,M)	CHIC 230	Chicano Art (M)
AMSL 116	American Sign Language Level II (C,M)	CHIN 101	First Course in Mandarin Chinese (M)
AMSL 215	American Sign Language Level III (C,M)	CHIN 102	Second Course in Mandarin Chinese (M)
AMSL 216	American Sign Language Level IV (C,M)	CHIN 201	Third Course in Mandarin Chinese (M)
ARAB 101	First Course in Arabic (C)	CHIN 202	Fourth Course in Mandarin Chinese (M)
ARAB 102	Second Course in Arabic (C)	DANC 181	Introduction to Dance (C,M)
ARTF 100	Art Orientation (C,M,MMR)	DFLM 101	Introduction to Film (MMR)
ARTF 107	Contemporary Art (M,MMR)	DFLM 102	The American Cinema (MMR)
ARTF 109	History of Modern Art (C,M,MMR)	DRAM 105	Introduction to Dramatic Arts (C,M)
ARTF 110	Art History: Prehistoric to Gothic (C,M,MMR)	DRAM 107	Study of Filmed Plays (C)
ARTF 111	Art History: Renaissance to Modern (C,M,MMR)	DRAM 108	Playwriting (C)
^ ARTF 113	Arts of Africa, Oceania, and the Americas (M,MMR)	^ DRAM 109	Theatre and Social Issues (C)
^ ARTF 115	African Art (C,M)	DRAM 136	History of Canonized Theatre - Ancient Greece to the Restoration (C)
^ ARTF 120	Native American Art (M)	DRAM 137	History of Canonized Western Theatre - Restoration to the Present (C)
ARTF 125	Art History: Arts of the Asian Continent (M,MMR)	DRAM 150	Cinema as Art and Communication I (M)
ARTF 191	Cultural Influences on Photography (M)	DRAM 151	Cinema as Art and Communication II (M)
ARTF 194	Critical Photography (M)	ENGL 207	The Art of the Sentence (M)
ARTG 118	Graphic Design History (C,MMR)	ENGL 208	Introduction to Literature (C,M,MMR)
^ BLAS 110	African American Art (C,M)	ENGL 209	Literary Approaches to Film (C,M,MMR)
BLAS 111	African Art History (M)	ENGL 210	American Literature I (C,M,MMR)
^ BLAS 120	Black Music (C,M)	ENGL 211	American Literature II (C,M,MMR)
^ BLAS 150	Black Women in Literature and the Media (C,M)	ENGL 215	English Literature I: 800-1799 (C,M,MMR)
^ BLAS 155	Afro-American Literature (C,M)	ENGL 216	English Literature II: 1800-Present (C,M,MMR)
CHIC 130	Mexican Literature in Translation (C,M)	ENGL 220	Masterpieces of World Literature I: 1500 BCE - 1600 CE (C,M,MMR)
^ CHIC 135	Chicana/o Literature (C,M)	ENGL 221	Masterpieces of World Literature II: 1600 - Present (C,M,MMR)
CHIC 138	Literature of La Raza in Latin America in Translation (C,M)	^ ENGL 230	Asian American Literature (M,MMR)
^ CHIC 190	Chicano Images in Film (C,M)	ENGL 237	Women in Literature (C,MMR)
CHIC 203	Introductory Spanish for Spanish Speakers (C)	ENGL 238	Evaluating Children's Literature (C,M)
CHIC 204	Intermediate Spanish for Spanish Speakers (C)	ENGL 240	Shakespeare (C,M)
^ CHIC 210	Chicano Culture (C,M)	FASH 120	Fashion History and Trends (M)
		FREN 101	First Course in French (C,M)
		FREN 102	Second Course in French (C,M)
		FREN 201	Third Course in French (C,M)

FREN 202	Fourth Course in French (C,M)	MUSI 102	Music History II: Mid 18th to Early 20th Century (M)
GERM 101	First Course in German (C,M)	MUSI 103	History of Rock Music (MMR)
GERM 102	Second Course in German (C,M)	MUSI 105	Music of Our Time (M)
GERM 201	Third Course in German (C,M)	^ MUSI 109	World Music (C,M,MMR)
HIST 100	World History I (C,M,MMR)	MUSI 111	Jazz-History and Development (C,M,MMR)
HIST 101	World History II (C,M,MMR)	MUSI 125	Music, the Arts and Humanity (M)
* HIST 105	Introduction to Western Civilization I (C,M,MMR)	PHIL 102A	Introduction to Philosophy: Reality and Knowledge (C,M,MMR)
* HIST 106	Introduction to Western Civilization II (C,M,MMR)	PHIL 102B	Introduction to Philosophy: Values (C,M,MMR)
^ HIST 120	Introduction to Asian Civilizations (C,M,MMR)	PHIL 103	Historical Introduction to Philosophy (M)
^ HIST 121	Asian Civilizations in Modern Times (C,M,MMR)	PHIL 104A	History of Western Philosophy (C,M)
^* HIST 123	U. S. History from the Asian Pacific American Perspective (C,M)	PHIL 104B	History of Western Philosophy (C,M)
* HIST 131	Latin America Before Independence (M)	PHIL 105	Contemporary Philosophy (C)
* HIST 132	Latin America Since Independence (M)	PHIL 106	Asian Philosophy (C,M)
HUMA 101	Introduction to the Humanities I (C,M,MMR)	PHIL 107	Reflections on Human Nature (C,M,MMR)
HUMA 102	Introduction to the Humanities II (C,M,MMR)	* PHIL 108	Perspectives on Human Nature and Society (C,M)
HUMA 103	Introduction to the New Testament (C,M)	PHIL 110	Philosophy of Religion (M)
HUMA 104	Introduction to the Old Testament (M)	PHIL 111	Philosophy in Literature (C,M)
HUMA 106	World Religions (C,M,MMR)	PHIL 112	Philosophy of Science (M)
HUMA 201	Mythology (C,M,MMR)	^* PHIL 125	Philosophy of Women (C,M)
HUMA 202	Mythology: Hero's Journey (C)	PHIL 130	Philosophy of Art and Music (C,M)
HUMA 205	Exploring Human Values Through Film (M)	* PHIL 205	Critical Thinking and Writing in Philosophy (C,M,MMR)
^ INTE 125	History of Decorative Arts (M)	PHOT 150	History of Photography (C)
ITAL 101	First Course in Italian (C,M)	RTVC 160	Introduction to Cinema (C)
ITAL 102	Second Course in Italian (C,M)	RUSS 101	First Course in Russian (C,M)
ITAL 201	Third Course in Italian (C,M)	RUSS 102	Second Course in Russian (M)
JAPN 101	First Course in Japanese (M)	RUSS 201	Third Course in Russian (M)
JAPN 102	Second Course in Japanese (M)	SPAN 100	First/Second Course in Spanish-Accelerated (M)
JAPN 201	Third Course in Japanese (M)	SPAN 101	First Course in Spanish (C,M,MMR)
JAPN 202	Fourth Course in Japanese (M)	SPAN 102	Second Course in Spanish (C,M,MMR)
LATI 101	First Course in Latin (M)	SPAN 201	Third Course in Spanish (C,M,MMR)
LATI 102	Second Course in Latin (M)	SPAN 202	Fourth Course in Spanish (C,M,MMR)
LATI 201	Third Course in Latin (M)	SPAN 215	Spanish for Spanish Speakers I (C,M,MMR)
MULT 116	Flash Game Development (M)	SPAN 216	Spanish for Spanish Speakers II (C,M,MMR)
MUSI 100	Introduction to Music (C,M,MMR)	SUST 102	Environmental Ethics (C)
MUSI 101	Music History I: Middle Ages to Mid 18th Century (M)	TAGA 101	First Course in Tagalog (M,MMR)

TAGA 102	Second Course in Tagalog (M,MMR)
TAGA 201	Third Course in Tagalog (M,MMR)
VIET 101	First Course in Vietnamese (M)
VIET 102	Second Course in Vietnamese (M)
VIET 201	Third Course in Vietnamese (M)

## D. Social and Behavioral Sciences

*A minimum of three semester units, or four quarter units, must be completed. Choose one course from the following:*

ADJU 101	Introduction to Administration of Justice (C,MMR)	^	BLAS 140B	History of the U.S., Black Perspectives (C,M,MMR)	
ADJU 101A	Introduction to Administration of Justice I (MMR)	^	BLAS 145A	Introduction to African History (C,M)	
ADJU 101B	Introduction to Administration of Justice II (MMR)	^	BLAS 145B	Introduction to African History (C)	
ADJU 101C	Introduction to Administration of Justice III (MMR)		BUSE 100	Introduction to Business (C,M,MMR)	
^	ADJU 106	Diversity and Community Relations (MMR)	BUSE 140	Business Law and the Legal Environment (C,M,MMR)	
ADJU 193	Concepts of Criminal Law (MMR)	^	CHIC 110A	Introduction to Chicano Studies (C,M)	
ADJU 230	Constitutional Law I (MMR)	^	CHIC 110B	Introduction to Chicano Studies (C,M)	
AGRI 100	Principles of Sustainable Agriculture (C)	^	CHIC 141A	United States History from a Chicano Perspective (C,M)	
^	AMSL 104	Introduction to Deaf Culture (M)	^	CHIC 141B	United States History from a Chicano Perspective (C,M)
^	ANTH 103	Introduction to Cultural Anthropology (C,M,MMR)	CHIC 150	History of Mexico (C,M)	
ANTH 107	Introduction to Archaeology (C,M,MMR)		CHIC 170	La Chicana (C,M)	
^	ANTH 200	Introduction to North American Indians (M)	CHIC 201	Pre-Columbian Cultures of MesoAmerica (C,M)	
ANTH 205	Introduction to Medical Anthropology (M)		CHIL 101	Human Growth and Development (C,M,MMR)	
^	ANTH 210	Introduction to California Indians (C,M)	CHIL 103	Lifespan Growth and Development (MMR)	
ANTH 215	Cultures of Latin America (C,M)	^	CHIL 141	The Child, Family and Community (C,M,MMR)	
BLAS 100	Introduction to Black Studies (C,M)		ECON 120	Principles of Macroeconomics (C,M,MMR)	
^	BLAS 104	Black Psychology (C,M)	ECON 121	Principles of Microeconomics (C,M,MMR)	
^	BLAS 115	Sociology from a Black Perspective (C)	^	ENGL 202	Introduction to Linguistics (C,M)
^	BLAS 116	Contemporary Social Problems from a Black Perspective (C,M)	^	FILI 100	Filipino American Experience (M,MMR)
^	BLAS 125	Dynamics of the Black Community (M)	FUTR 101	Introduction to Futures Studies (C)	
^	BLAS 130	The Black Family (C,M)	FUTR 102	Creating Futures: Methods and Tools (C)	
^	BLAS 135	Introduction to Black Politics (C)	FUTR 103	Emerging Technologies (C)	
^	BLAS 140A	History of the U.S., Black Perspectives (C,M,MMR)	GEND 101	Introduction to Gender Studies (C)	
			^	GEOG 102	Cultural Geography (C,M,MMR)
				GEOG 104	World Regional Geography (C,M,MMR)
				GEOG 154	Introduction to Urban Geography (C,M)
			*	HIST 105	Introduction to Western Civilization I (C,M,MMR)
			*	HIST 106	Introduction to Western Civilization II (C,M,MMR)
				HIST 109	History of the United States I (C,M,MMR)
				HIST 110	History of the United States II (C,M,MMR)
			^	HIST 115A	History of the Americas I (C,M)

^	HIST 115B	History of the Americas II (C,M)	PSYC 155	Introduction to Personality (C,M,MMR)	
^*	HIST 123	U. S. History from the Asian Pacific American Perspective (C,M)	PSYC 166	Introduction to Social Psychology (C,M,MMR)	
^	HIST 130	The Modern Middle East (M)	PSYC 211	Learning (C,M,MMR)	
*	HIST 131	Latin America Before Independence (M)	PSYC 230	Psychology of Lifespan Development (C,M,MMR)	
*	HIST 132	Latin America Since Independence (M)	PSYC 245	Abnormal Psychology (C,M,MMR)	
	HIST 141	Women in United States History I (C,M,MMR)	^	SOCO 101	Principles of Sociology (C,M,MMR)
	HIST 142	Women in United States History II (C,M,MMR)	^	SOCO 110	Contemporary Social Problems (C,M,MMR)
^	HIST 150	Native Americans in United States History (M,MMR)	^	SOCO 125	Sociology of the Family (C,M)
^	HIST 151	Native Americans in United States History (M,MMR)	^	SOCO 150	Sociology of Latinos/Latinas (C)
	HIST 154	Ancient Egypt (M)		SOCO 201	Advanced Principles of Sociology (C,M,MMR)
	HIST 175	California History (M)	^	SOCO 223	Globalization and Social Change (C,M,MMR)
	JOUR 202	Introduction to Mass Communication (C,M,MMR)		SUST 101	Introduction to Sustainability (C)
^	NUTR 153	Cultural Foods (M)			
	PEAC 101	Introduction to Peace Studies (C)			
	PEAC 102	Nonviolence and Conflict Resolution (C)			
	PEAC 201	Environmental Sustainability, Justice and Ethics (C)			
*	PHIL 108	Perspectives on Human Nature and Society (C,M)			
	PHIL 109	Issues in Social Philosophy (M)			
^*	PHIL 125	Philosophy of Women (C,M)			
	PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (C,M)			
	POLI 101	Introduction to Political Science (C,M,MMR)			
	POLI 102	The American Political System (C,M,MMR)			
^	POLI 103	Comparative Politics (C,M,MMR)			
^	POLI 140	Contemporary International Politics (C,M,MMR)			
	PSYC 101	General Psychology (C,M,MMR)			
	PSYC 111	Psychological /Social Aspects of Aging, Death and Dying (C,M)			
	PSYC 121	Introduction to Child Psychology (M,MMR)			
	PSYC 123	Adolescent Psychology (MMR)			
	PSYC 133	Psychology of Women (M,MMR)			
	PSYC 135	Marriage and Family Relations (C,M,MMR)			
	PSYC 137	Human Sexual Behavior (C,M,MMR)			

## Certificate of Achievement

On the recommendation of the faculty, the colleges of the San Diego Community College District award the Certificate of Achievement to students who complete the specified requirements. Programs in which a Certificate of Achievement may be awarded are described in the Degree Curricula and Certificate Programs section of this catalog. Certificate programs are designed for students with specific personal or occupational goals. To qualify for the Certificate of Achievement, students must satisfy the following requirements:

1. meet all standards for admission to the desired certificate program;
2. earn a grade of "C" or higher in each course;
3. complete a minimum of three courses in residence;
4. and a minimum of six semester units of the required courses for the major must be completed at City, Mesa or Miramar College.

## Certificate of Performance

Programs in which a Certificate of Performance may be awarded are described in the Degree Curricula and Certificate Programs section of this catalog. A Certificate of Performance recognizes the attainment of knowledge and/or skill through the successful completion of two or more courses as specified by a department. Certificates of Performance are

designed to prepare students for employment, job enhancement and/or job advancement. To qualify for the Certificate of Performance, students must satisfy the following requirements:

1. Achieve a grade of "C" or better in each of the required courses.
2. Complete all required course work in the San Diego Community College District.
3. Course substitutions or course equivalencies from other colleges may not be used to satisfy Certificate of Performance requirements.

For additional information, contact the campus Evaluations Office or subject-area department.

## Graduation

### Petition for Graduation

Student who expect to receive an Associate Degree or a Certificate of Achievement should file a Petition for Graduation. The Petition may be completed online at: <https://studentweb.sdccd.edu>, or obtained in the Counseling Office. See Academic Calendar section for important filing dates.

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**Official college transcripts from all colleges attended must be on file before submitting the petition for Associate Degree or Certificate of Achievement.**

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An evaluation is a summary of college work completed and of requirements to be completed for the associate degree or the certificate of achievement. Only evaluations completed by one of the Evaluators are official.

A petition for an associate degree evaluation should be submitted one year before the student plans to graduate.

Students who are working toward a certificate of achievement should file the Petition for Graduation prior to the beginning of the semester in which they plan to complete the requirements of their certificate program.

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**Students who have petitioned for graduation should notify the evaluator immediately of any name or address change.**

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## Catalog Rights

Students who maintain continuous enrollment may choose to graduate under the (City College, Mesa College, and Miramar College) catalog in effect at the time they began their studies in a California Community College, California State University, or University of California campus, or under the catalog in effect at the time of graduation.

Certification of a student's completion of CSU general education requirements or the Intersegmental General Education Transfer Curriculum (IGETC) is not a graduation requirement. Therefore, students do not have catalog rights to a certification pattern used by a certifying institution or a CSU or UC campus.

## Continuous Enrollment

Continuous enrollment is defined as attendance in one semester or two quarters within a calendar year in either the CSU, UC, or California Community College System.

## Awarding of Degrees or Certificates

Associate Degrees/Certificates of Achievement will be awarded at the end of the semester in which the requirements are completed.

The graduation ceremony is held once a year. Candidates for Fall, Spring and Summer graduation may participate in the ceremony which is held at the end of the Spring semester.

## Diplomas

Diplomas are issued only after completion of all graduation requirements have been verified. Diplomas will be issued in the name of record at the time the diploma is awarded. For information on obtaining your diploma or certificate of achievement, or a duplicate copy, please contact the Evaluations Office on campus ~~at 619-388-2680, MV-20.~~

## Graduation with Distinction

Graduation with honors distinction will be based upon all coursework that is associate degree and lower division baccalaureate degree applicable.

Graduation with Honors is granted to students who achieve an overall 3.5 GPA, High Honors is granted



to students who achieve an overall 3.75 GPA, and Highest Honors is granted to students who achieve an overall 4.0 GPA.

Students will be notified that this distinction is pending at the time of the graduation ceremony, when the GPA will be calculated based upon degree or certificate applicable coursework completed through the fall semester of the year of the ceremony. The final distinction will be determined upon completion of all coursework completed through the fall semester for fall graduates, or the spring semester for spring graduates or the summer term for summer graduates.

## Additional College Degree

A student having received an associate or baccalaureate degree may qualify for an additional Associate in Arts or Associate in Science degree in a new major or concentration.

An additional degree:

1. Permits upgrading or preparation for upgrading current employment.
2. Prepares for employment in an area different from that provided by previous training.
3. Provides general knowledge leading to fulfillment of personal goals.

The following requirements are applicable:

1. The degree to be earned must represent a change in major or concentration from the degree or degrees previously earned.
2. A student must earn a minimum of 18 required semester units in the new major or concentration beyond the minimum 60 units

required for the Associate Degree, bringing the total units required for the second degree to a minimum of 78 units, a minimum of 96 units for the third degree, and so on. Twelve (12) semester units of the new major or concentration must be completed in residence.

3. A student must fulfill current catalog associate degree requirements.
4. In order to receive an additional college degree, the student must file a Petition for Graduation in the Evaluations Office. The college evaluator will review all previous college work to determine the student's eligibility for a second degree.

## Transfer Programs

(See "Transfer Guide" on page 101)

### High School Courses for College Credit (Credit by Exam)

As part of an early college program called Tech Prep, high school students may earn college credit equivalent to the courses in the table below. To receive credit, students must: 1) demonstrate acquisition of the college student learning outcomes by earning a grade of 'B' or better in the approved course and on the college approved examination; 2) successfully complete the SDCCD online college application and Tech Prep certification process. The high school instructor must verify grades, ensure successful completion of enrollment process and submit each request to the Tech Prep office. Approved requests are processed annually each July. Students may request an SDCCD transcript after July 31st. For questions and more information, contact the Tech Prep program at 619-388-6572.

## TECH PREP APPROVED COURSES

For the most updated list visit: <http://techprep.sdccd.edu>

HIGH SCHOOL COURSE(S)/PROGRAM	HIGH SCHOOL SITE(S)	MESA COURSE(S)	UNITS
<b>ROP</b> Drafting, Computer Aided <b>or</b> <b>ROP</b> Civil Engineering and Architecture	Kearny Educational Complex, Crawford Educational Complex, Madison, Lincoln Center for Science and Engineering, and Patrick Henry	ARCH 105	ARCH 105 may waive prerequisite
<b>ROP</b> Tools for the Digital Age	Clairemont, Hoover, Mira Mesa, Point Loma, San Diego Educational Complex, Scripps Ranch, Serra, Lincoln Center for Public Safety, Twain	CBTE 101 CBTE 120 CBTE 122 CBTE 127 CBTE 140 CBTE 151 CBTE 170 CBTE 210 <b>OR</b> CBTE 211	up to 16
Computer Applications <b>or</b> Computer Applications in Business	Clairemont, Crawford Educational Complex, Hoover, Kearny Educational Complex, La Jolla, Twain, Mira Mesa, Mission Bay, Patrick Henry, Point Loma, San Diego Educational Complex, Scripps Ranch, Serra, University City, Morse, Lincoln Center for Social Justice	CBTE 101 CBTE 120	up to 3
<b>ROP</b> Computerized Graphic Design	Crawford Educational Complex, Hoover, Morse, Patrick Henry, Point Loma, Kearny Educational Complex, San Diego Educational Complex, Scripps Ranch, Serra, Twain, Mira Mesa, Mission Bay	CBTE 162 CBTE 170 CISC 114 (City)	up to 6
<b>ROP</b> Developmental Psychology of Children 1-4	Clairemont, Garfield, Hoover, Mira Mesa, Morse, Patrick Henry, Point Loma, Scripps Ranch, Twain and University City	CHIL 160 CHIL 161 CHIL 270	up to 6
Academy of Finance	San Diego Educational Complex	ACCT 102 (City, Miramar) BUSE 90A (City) BUSE 90B (City) BUSE 90C (City) BUSE 90D (City) BUSE 92 (City) BUSE 113 (City) CONF 110	up to 17.5
<b>ROP</b> Introduction to Teaching and Learning	Clairemont, Hoover, Mira Mesa, Morse, Patrick Henry, Point Loma, Scripps Ranch and University City	CHIL 270	up to 4
Teaching Academy	Mira Mesa, Patrick Henry, Morse, and Scripps Ranch	EDUC 200	2

## TECH PREP APPROVED COURSES

For the most updated list visit: <http://techprep.sdccd.edu>

HIGH SCHOOL COURSE(S)/PROGRAM	HIGH SCHOOL SITE(S)	MESA COURSE(S)	UNITS
Teaching Academy	Mira Mesa, Patrick Henry, Morse, and Scripps Ranch	EDUC 203	1
<b>ROP</b> Culinary Arts Management or Food Preparation & Nutrition 1-2 AND Gourmet & International Foods AND Nutrition	Garfield, Hoover, Madison, Mira Mesa, Morse, San Diego Educational Complex, and Scripps Ranch	CACM 105 CACM 110	up to 7
<b>ROP</b> Marketing, Meeting & Special Events	Serra, San Diego Educational Complex	HOSP 165	3
<b>ROP</b> Hospitality & Tourism	Garfield, San Diego Educational Complex	HOSP 101	up to 3
<b>ROP</b> Multimedia Production	Clairemont, Kearny Educational Complex, Crawford Educational Complex, Hoover, High Tech High, Hoover, Lincoln Center for the Arts, Mission Bay, Point Loma, S.C.P.A., Scripps Ranch, San Diego Educational Complex, Serra, University City, High Tech High Media Arts, and Mira Mesa	MULT 101 MULT 112 MULT 123	up to 11
<b>ROP</b> Website Design	Crawford Educational Complex, Hoover, Lincoln Center for Public Safety, Madison, Mission Bay, San Diego Educational Complex, Serra, and Twain	MULT 101	4
<b>ROP</b> Health Care Essentials	Crawford Educational Complex, Morse, Hoover, Lincoln Center for Public Safety, Point Loma, and University City	ALLH 049	1.5
<b>ROP</b> GIS & Global Technologies	San Diego Ed Complex, Kearny Ed Complex, Patrick Henry, Hoover, Morse, Twain, and Madison	GISG 110	3



# Transfer Guide



# Transfer Programs

Many of the courses completed at San Diego City College, San Diego Mesa College, and San Diego Miramar College may be applied for transfer credit to four-year colleges and universities. Students have the opportunity to complete their first two years of a four-year degree at this level. The Transfer Center serves as a resource center for students interested in transfer and provides the following: university catalogs, student computer work stations, university brochures and handouts, assistance with transfer information such as articulation agreements for lower division general education, major preparation, transferable electives, workshops on transferring to colleges and universities, access to university advisors, guaranteed university admission programs, assistance completing college applications, and campus visits.

Students are advised to plan transfer programs as early as possible and enroll in transferable courses in both general education and in courses that prepare for the specific university major. Questions related to transfer programs should be discussed with counselors or the Transfer Center staff. Students interested in transfer should meet with a counselor in the Counseling Department, room MV-27 to develop a Transfer Educational Plan which will identify the courses needed to transfer. The Transfer Center is located in the Modular Village, MV-20. For information, call 619-388-2473.

## Components of Transfer

“Transfer” is continuing your education at a baccalaureate-degree granting college or university, usually after completing your first two years at a community college.

Websites [www.californiacolleges.edu](http://www.californiacolleges.edu) and [www.csumentor.edu](http://www.csumentor.edu) provide Transfer Planners and additional resources to provide you with pertinent information.

### 1. Making your decisions

#### Career Objective

Your career objective will determine the type of degree you need and your choices for selecting a major.

#### Major Objective

Many of the classes you take in college will be determined by your major, which is the field of study you will emphasize. You are required

to major in a specific academic subject to demonstrate sustained, high level work in one field.

#### University Selection

Selecting a university takes time and planning. It is strongly recommended that you enroll in Personal Growth 120, College Success. Work closely with your counselor to ensure that you are making the choice that is right for you.

### 2. Educational Plan

#### Major Preparation

Some majors require specific lower-division courses to be admitted to a major upon transfer. For public universities in California, visit [www.assist.org](http://www.assist.org) for this articulation information. Articulation is the process whereby a course (or set of courses) offered at one institution is accepted as equivalent to or in lieu of a comparable course (or set of courses) at another institution. For current Mesa College articulation agreements with private/independent universities, visit the Transfer Center website at [www.sdmesa.edu/transfer-center/](http://www.sdmesa.edu/transfer-center/).

#### General Education Requirements

General Education requirements are courses required of everyone regardless of major. Each university has different general education patterns. Mesa students can choose from the following:

- a. Complete specific requirements for an individual university; or
- b. Complete the approved Intersegmental General Education Transfer Curriculum (IGETC) pattern of courses acceptable at all campuses of the CSU, most campuses of the UC, and some private institutions; or
- c. Complete the approved CSU GE Breath pattern of lower-division courses acceptable at all campuses of the CSU system.

It is strongly advised that you work closely with a counselor before making a decision. For a list of transfer GE options for the IGETC coursework patterns see page 109. The CSU GE coursework patterns may be found on page 117.

#### Electives

Electives are additional courses taken to meet the number of required units or to meet additional lower-division graduation requirements. Make sure the courses you select

are transferable courses by referring to the course descriptions in this catalog.

### 3. Application

Most universities require you to apply for admission about one year prior to your expected transfer date. Visit the Transfer Center in MV-20 for more information.

## Transfer to California State University (CSU)

The California State University (CSU) system is made up of 23 universities throughout the state. These include:

California Maritime Academy  
 California Polytechnic State University, San Luis Obispo  
 California State Polytechnic University, Pomona  
 California State University, Bakersfield  
 California State University, Channel Islands  
 California State University, Chico  
 California State University, Dominguez Hills  
 California State University, East Bay  
 California State University, Fresno  
 California State University, Fullerton  
 California State University, Long Beach  
 California State University, Los Angeles  
 California State University, Monterey Bay  
 California State University, Northridge  
 California State University, Sacramento  
 California State University, San Bernardino  
 California State University, San Marcos  
 California State University, Stanislaus  
 Humboldt State University  
 San Diego State University  
 San Francisco State University  
 San Jose State University  
 Sonoma State University

Students who plan to earn a university degree may find it advantageous to complete freshman and sophomore work at a California community college. A student may apply 70 transferable semester units from the community colleges toward a university degree. Courses completed at a community college after the 70-unit maximum course units has been reached will count toward university requirements, but these course units will not count toward the total number of units required to earn a university degree.

## California State University Minimum Admission Requirements

Transfer students will be eligible for admission by meeting the following requirements:

- 1. Complete 60 semester units or 90 quarter units of transferable units. These 60 units consist of:**
  - General Education pattern (for details see page 117),
  - Preparation for Major (details on page 108), and
  - any electives needed to reach the 60 unit minimum.
- 2.** Within the General Education, the completion of the Golden 4 (Critical Thinking, Writing, Speech, Math) with a grade of C or better. Pass/No-Pass grades are not recommended in these areas.
- 3. GPA:** Your overall grade point average must be at least 2.0 (2.40 for California nonresidents). Impacted majors may have higher GPA requirements.
- 4.** The CSU designates major programs as impacted when more applications are received in the initial filing period from CSU-eligible applicants than can be accommodated by the campus. The initial filing period is defined as the first month of the filing period (October and November for fall terms). If you are interested in an impacted major, you must apply during the initial filing period. You will be subject to supplementary admission criteria.

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

The California State University, before awarding a degree, requires students to complete courses or examinations that address:

- 1.** The historical development of American institutions and ideals (Area US-1), and
- 2.** The Constitution of the United States and the operation of representative democratic government under that Constitution (Area US-2), and
- 3.** The process of California state and local government (Area US-3).

This requirement may be fulfilled at a California Community College prior to transfer by completing a combination of courses that satisfies all three areas of the requirement. The requirement may also be completed at a CSU campus after transfer. Courses approved in two US areas may be used to satisfy both areas.

Although this requirement is not part of the General Education requirements for CSU, all students must complete course work in U.S. History, Constitution and Government before graduation from a CSU campus. The courses may also be used to partially fulfill Area D of the CSU General Education Breadth Requirements.

**A check mark [ ✓ ] indicates course has been approved to meet the area**

**Note: Not required for Certification.**

Course	Area US-1: Development of American Institutions	Area US-2: US Constitution	Area US-3: California State & Local Governments
BLAS 140A History of the United States, Black Perspectives (C, M, MMR)	✓	✓	
BLAS 140B History of the United States, Black Perspectives (C, M, MMR)	✓		✓
CHIC 141A U.S. History from a Chicano Perspective (C, M)	✓	✓	
CHIC 141B U.S. History from a Chicano Perspective (C, M)	✓		✓
HIST 109 History of the United States I (C,M,MMR)	✓	✓	
HIST 110 History of the United States II (C,M,MMR)	✓		✓
HIST 115A History of the Americas I (C,M)	✓	✓	
HIST 115B History of the Americas II (C,M)	✓		✓
HIST 123 U.S. History from the Asian Pacific American Perspective (C,M)	✓		✓
HIST 141 Women in United States History I (C,M, MMR)	✓	✓	
HIST 142 Women in United States History II (C,M, MMR)	✓		✓
HIST 150 Native Americans in U.S. History (M,MMR)	✓	✓	
HIST 151 Native Americans in U.S. History (M,MMR)	✓		✓
HIST 175 California History (M)			✓
POLI 102 The American Political System (C,M, MMR)		✓	✓

**NOTES:**

- **Three units of coursework used to fulfill the American Institutions/California Government requirement may also be used to fulfill a general education requirement. However, if a six-unit sequence or combination is selected to fulfill the American Institutions requirement, only three (3) units may be used for general education credit.**
- **Courses designated with a carat (^) may also be used to fulfill the District Multicultural studies requirement.**
- **Completion of the Advanced Placement examination in U.S. History with a score of 3 or higher will satisfy the requirement for the CSU American Institutions Area US-1 only.**
- **Completion of the Advanced Placement examination in U.S. Government & Politics with a score of 3 or higher will satisfy the requirement for Area US-2.**
- **Students who have completed the American Institutions requirement except for the California government portion must complete one course approved in Area US-3**



## California State University Transfer Checklist

- When you begin classes at a California Community College, discuss your transfer plans with a community college counselor in MV-27 or Transfer Center in MV-20. Inquire about California State University (CSU) general education requirements and the lower division courses required for your major.
- Review your California Community College catalog for information on which courses are transferable to the CSU.
- Obtain one or more CSU campus catalogs to become familiar with admission, general education, and major requirements.
- If you will need financial assistance to attend CSU, talk to a financial aid advisor at the California Community College you are attending; obtain a copy of the FAFSA form, and note application deadlines.
- Contact a CSU campus Disabled Student Services program to inquire about available services.
- Visit one or more CSU campuses. Call the Admissions Office at your target campus if you would like a campus tour. Contact the Transfer Center in MV-20 to see about 4-year representative visits or visit the website at [www.sdmesa.edu/transfer-center/](http://www.sdmesa.edu/transfer-center/)
- Complete and file an application for admission with the CSU campus during the initial filing period, October 1 - November 30 (for Fall), visit [www.csumentor.edu](http://www.csumentor.edu).
- Pay the application fee with the CSU application for admission.
- Send in your Intent to Enroll response along with the fee to accept the admissions offer.
- Have transcripts from all colleges attended (and high school transcript, if necessary) sent to the CSU campus you have selected by the timeline indicated by the university.
- After you have been accepted for admission to a CSU campus, request that the community college Evaluations Office in MV-20 certify the CSU general education pattern.
- Meet with an admissions representative to ensure you have completed all paperwork.

**Take charge of your transfer program. You too, can discover the difference that a CSU education can make in reaching your career goals.**

## Transfer to University of California

The University of California system includes nine campuses and a Health Sciences Center in San Francisco.

University of California Campuses

University of California, Berkeley

University of California, Davis

University of California, Irvine

University of California, Los Angeles

University of California, Merced

University of California, Riverside

University of California, San Diego

University of California, San Francisco

University of California, Santa Barbara

University of California, Santa Cruz

Students who plan to earn a university degree may find it advantageous to complete freshman and sophomore work at a California community college. A student may apply 70 transferable semester units (or 105 quarter units) from the community colleges toward a university degree. Courses completed at a community college after the 70-unit maximum course units has been reached will count toward university requirements, but these course units will not count toward the total number of units required to earn a university degree.

### The University of California minimum requirements

Transfer students will be eligible for admission if they meet the following requirements:

1. Complete 60 semester units or 90 quarter units of transferable units;
2. A grade point average of at least 2.4, with no more than 14 semester or 21 quarter units taken as Pass/No Pass; and
3. Complete the following course pattern, with a grade of "C" or better in each course:
  - two transferable college courses (3 semester or 4-5 quarter units) in English composition; and
  - one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; and

- four transferable college courses (3 semester or 4-5 quarter units each) selected from at least two of the following subject areas: arts and humanities; social and behavioral sciences; and physical and biological sciences.

Students who complete the Intersegmental General Education Transfer Curriculum (IGETC) pattern prior to transferring to the University of California system will meet the transfer eligibility coursework requirement listed above (see page 109 for details). Students who did not qualify for admissions to a university when graduating from high school because subjects A-F were not satisfied, must complete the requirements listed above.

**Note:** Specific admission criteria vary among University of California campuses. The UC system limits credit for transfer of courses in fine arts, music, theater arts, computer science, engineering and independent study.

### UC Transfer and Physical Education Activity Courses

UC grants a maximum of four semester units of credit for appropriate Physical Education Activity courses. Courses that are subject to this limit are listed as such on the college's UC Transfer Course Agreement, available on web ASSIST at [www.assist.org](http://www.assist.org) under the UC Transferable Courses link. Physical Education Theory courses or courses that do not fit either the Theory or Activity category are not included in the four semester credit limit.

### UC Transfer and Variable Topics Courses

These courses are also called "Independent Studies", "Special Studies", "Special Topics", "Internships", "Field Work", etc. Credit for variable topics courses is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. UC does not grant credit for variable topics courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) or Library Departments because of credit restrictions in these areas.

## University of California Transfer Checklist

- When you begin classes at a California Community College, discuss your transfer plans with a community college counselor in MV-27 or Transfer Center in MV-20. Inquire about University of California (UC) general education requirements and the lower division courses required for your major. Please note that UC stresses the prep for major over the general education requirements.
- Review your California Community College catalog for information on which courses are transferable to the UC.
- Obtain one or more UC campus catalogs to become familiar with admission, general education, and major requirements.
- If you will need financial assistance to attend UC, talk to a financial aid advisor at the California Community College you are attending; obtain a copy of the FAFSA form, and note application deadlines.
- Contact a UC campus Disabled Student Services program to inquire about available services.
- Visit one or more UC campuses. Call the Admissions Office at your target campus if you would like a campus tour. Contact the Transfer Center in MV-20 to see about 4-year representative visits or visit the website at [www.sdmesa.edu/transfer-center](http://www.sdmesa.edu/transfer-center).
- Complete and file an application for admission with the UC campus during the initial filing period November 1-30 (for Fall), visit [www.universityofcalifornia.edu](http://www.universityofcalifornia.edu).
- Pay the application fee with the UC application for admission.
- Submit the Intent to Enroll form.
- Have transcripts from all colleges attended (and high school transcript, if necessary) sent to the UC campus you have selected.
- After you have been accepted for admission to a UC campus, request that the community college Evaluations Office certify you have completed the IGETC general education pattern.
- Attend the UC Transitions workshop.

**Take charge of your transfer program. Visit the Transfer Center in Modular Village (MV) 20 for resources, appointments with UC representatives and additional information.**

## Transfer to Private and Independent Colleges and Universities

Transfer options are available to hundreds of Private and Independent Colleges and Universities throughout world. Admission requirements are different at each private and independent university. To establish a transfer plan, come to the Transfer Center to research and obtain transfer admissions requirements, then work with a counselor to establish a plan.

### Historically Black Colleges and Universities (HBCU)

Any historically black college or university that was established prior to 1964, whose principal mission was, and is, the education of black Americans, and that is accredited by a nationally recognized accrediting agency or association determined by the Secretary [of Education] to be a reliable authority as to the quality of training offered or is, according to such an agency or association, making reasonable progress toward accreditation. There are over 125 HBCU's in the United States.

### Hispanic Serving Institutions

The Hispanic Association of Colleges and Universities (HACU) is a national educational association that represents colleges and universities committed to Hispanic higher education success in the United States (including Puerto Rico), Latin America, and Spain. HACU has 193 member Hispanic-Serving Institutions (HSIs) located in 11 U.S. states and Puerto Rico. To be considered a Hispanic-Serving Institution, the Hispanic enrollment at a college or university must be at least 25 percent of the total student enrollment. California is home to 54 Hispanic Serving Institutions.

## Tribal Colleges and Universities

There are 35 federally recognized Tribal Colleges and Universities in the United States. Located mainly in the Midwest and Southwest, Tribal Colleges and Universities service approximately 30,000 full- and part-time students. They offer two-year associate degrees in over 200 disciplines with some providing a bachelor's and master's degree. They also offer 200 vocational certificate programs.

## Preparation for the Major

Many majors require or recommend introductory or prerequisite courses, most of which are offered in California Community Colleges. For public universities in California, visit [www.assist.org](http://www.assist.org) for the articulation information for your major. For private/independent universities, visit the Transfer Center website at [www.sdmesa.edu/transfer-center/](http://www.sdmesa.edu/transfer-center/) under Student Services. ASSIST and HBCU Mentor are tools you can utilize to obtain information for preparation for majors.

**ASSIST:** ASSIST is a computerized student-transfer information system that can be accessed online. It displays reports of how course credits earned at one California college transfers to a California public university. ASSIST is the official repository of articulation for California's colleges and universities and therefore provides the most accurate and up-to-date information available about student transfer in California. Visit ASSIST at [www.assist.org](http://www.assist.org)

**HBCU Mentor:** HBCUMentor is a student services website representing the statewide and independent colleges and universities of Historically Black Colleges and Universities.   
REMOVED LINK - 08/17/2018

# University of California and California State University

## Intersegmental General Education Transfer Curriculum (IGETC) (Option 3)

() Colleges in parenthesis indicate where the course is approved for IGETC Requirements.

C—City College  
M—Mesa College  
MMR—Miramar College

\* Courses with asterisks are listed in more than one area but shall not be certified in more than one area.

+ Courses with pluses indicate transfer credit may be limited by either UC or CSU, or both. Please consult a counselor for additional information.

@ Courses with at symbols indicate CSU-only requirements.

The Intersegmental General Education Transfer Curriculum (IGETC) is a general education pattern that will fulfill all lower-division general education requirements at all California State University (CSU) campuses and most University of California (UC) campuses/majors. It is also accepted by some private/independent or out of state universities. IGETC is usually recommended for students who intend to transfer to a UC campus, or who are not yet sure of their intended transfer university. Completion of the IGETC pattern is not an admission requirement for transfer to most UC or CSU campuses, nor is it the only way to fulfill the lower division GE requirements of a UC or CSU campus prior to transfer.

**It is strongly recommended that students consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.**

### Rules for using the IGETC pattern:

- Each course must have been IGETC approved at the time it was taken. See [www.assist.org](http://www.assist.org) for a list of certified courses and approval dates.
- Courses may be approved for more than one IGETC area. However, each course may be used to certify only one of the areas it is approved for.
- Students should apply for IGETC certification at the last community college attended prior to transfer. Forms are available from the Counseling Evaluations office.
- AP credit and coursework completed at accredited U.S. colleges and universities may be used to fulfill some IGETC requirements. All such credit must be evaluated through the Evaluations office. Foreign coursework is not acceptable.
- All courses must be passed with a "C" or higher. "C-" is not acceptable.
- Students transferring to UC need not complete the Oral Communication requirement (Area 1C).
- Students transferring to CSU need not complete the Languages Other than English requirement.
- Some UC campuses do not allow use of IGETC for students who were previously enrolled at a UC campus.
- Some community college courses have limitations on the amount of credit awarded by the receiving university. See a counselor, the course description in the college catalog, or [www.assist.org](http://www.assist.org) for more information.

### IGETC is not recommended for the following transfer destinations:

- UC San Diego Revelle and Eleanor Roosevelt Colleges
- UC Berkeley Colleges of Business, Chemistry, Environmental Design (Architecture), Engineering, Natural Resources, Optometry
- UC Davis College of Engineering
- UC Irvine Schools of Engineering, Biological Sciences, Physical Sciences
- UC Riverside Colleges of Engineering, Natural and Agricultural Sciences
- UC Santa Barbara Colleges of Engineering, Creative Studies
- UC Los Angeles Schools of Engineering and Applied Science, Nursing

## The IGETC Pattern

### Area 1—English Communication

2-3 courses, 6-9 semester/8-12 quarter units

#### Group A: English Composition

1 course, 3 semester/4-5 quarter units

- ENGL 101 Reading and Composition (C,M,MMR)  
OR  
ENGL 105 Composition and Literature (C,M,MMR)

#### Group B: Critical Thinking - English Composition

1 course, 3 semester/4-5 quarter units

Courses must have English Composition as a prerequisite

- ENGL 205 Critical Thinking and Intermediate Composition (C,M,MMR)  
PHIL 205 Critical Thinking and Writing in Philosophy (C,M,MMR)

#### Group C: Oral Communication

1 course, 3 semester/4-5 quarter units

- @ COMS 103 Oral Communication (C,M,MMR)  
@ COMS 160 Argumentation (C,M,MMR)

### Area 2—Mathematical Concepts and Quantitative Reasoning

1 course, 3 semester/4-5 quarter units

Courses must have Intermediate Algebra as a prerequisite.

- + BIOL 200 Biological Statistics (C,M)  
+ MATH 116 College and Matrix Algebra (C,M,MMR)  
+ MATH 119 Elementary Statistics (C,M,MMR)  
+ MATH 121 Basic Techniques of Applied Calculus I (C,M,MMR)  
+ MATH 122 Basic Techniques of Calculus II (C,M,MMR)  
+ MATH 141 Precalculus (C,M,MMR)  
+ MATH 150 Calculus with Analytic Geometry I (C,M,MMR)  
+ MATH 151 Calculus with Analytic Geometry II (C,M,MMR)  
MATH 245 Discrete Mathematics (C,M,MMR)

- MATH 252 Calculus with Analytic Geometry III (C,M,MMR)  
MATH 254 Introduction to Linear Algebra (C,M,MMR)  
MATH 255 Differential Equations (C,M,MMR)  
+ PSYC 258 Behavioral Science Statistics (C,M,MMR)

### Area 3—Arts and Humanities

3 courses, 9 semester/12-15 quarter units

At least one course from the Arts and one from the Humanities.

#### 3A: Arts Courses:

- ARTF 100 Art Orientation (C,M,MMR)  
ARTF 107 Contemporary Art (M,MMR)  
ARTF 109 History of Modern Art (C,M,MMR)  
ARTF 110 Art History: Prehistoric to Gothic (C,M,MMR)  
ARTF 111 Art History: Renaissance to Modern (C,M,MMR)  
+ ARTF 113 Arts of Africa, Oceania, and the Americas (M,MMR)  
+ ARTF 115 African Art (C,M)  
+ ARTF 120 Native American Art (M)  
ARTF 125 Art History: Arts of the Asian Continent (M,MMR)  
\* ARTF 191 Cultural Influences on Photography (M)  
ARTF 194 Critical Photography (M)  
ARTG 118 Graphic Design History (C)  
BLAS 110 African American Art (C,M)  
+ BLAS 111 African Art History (M)  
BLAS 120 Black Music (C,M)  
CHIC 230 Chicano Art (M)  
DFLM 101 Introduction to Film (MMR)  
DFLM 102 The American Cinema (MMR)  
DRAM 105 Introduction to Dramatic Arts (C,M)  
DRAM 107 Study of Filmed Plays (C)  
DRAM 109 Theatre and Social Issues (C)  
DRAM 136 History of Canonized Theatre - Ancient Greece to the Restoration (C)  
DRAM 137 History of Canonized Western Theatre -Restoration to the Present (C)  
DRAM 150 Cinema as Art & Communication I (M)  
DRAM 151 Cinema as Art & Communication II (M)  
MUSI 100 Introduction to Music (C,M,MMR)

MUSI 101	Music History I: Middle Ages to Mid 18th Century (M)
MUSI 102	Music History II: Mid 18th - Early 20th Century (M)
MUSI 103	History of Rock Music (MMR)
MUSI 105	Music of Our Time (M)
MUSI 109	World Music (C,M,MMR)
MUSI 111	Jazz - History & Development (C,M,MMR)
MUSI 125	Music, The Arts, and Humanity (M)
PHOT 150	History of Photography (C)

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### 3B: Humanities Courses:

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* AMSL 104	Introduction to Deaf Culture (M)	FREN 102	Second Course in French (C,M)
AMSL 116	American Sign Language Level II (C,M)	FREN 201	Third Course in French (C,M)
AMSL 215	American Sign Language Level III(C,M)	FREN 202	Fourth Course in French (C,M)
AMSL 216	American Sign Language Level IV (C,M)	GERM 102	Second Course in German (C,M)
* ARTF 191	Cultural Influences on Photography (M)	GERM 201	Third Course in German (C,M)
* BLAS 145A	Introduction to African History (C,M)	* HIST 100	World History I (C,M,MMR)
* BLAS 145B	Introduction to African History (C)	* HIST 101	World History II (C,M,MMR)
BLAS 150	Black Women in Literature & the Media (C,M)	* HIST 105	Introduction to Western Civilization I (C,M,MMR)
BLAS 155	Afro-American Literature (C,M)	* HIST 106	Introduction to Western Civilization II (C,M,MMR)
CHIC 130	Mexican Literature in Translation (C)	* HIST 120	Introduction to Asian Civilizations (C,M,MMR)
CHIC 135	Chicana/o Literature (C,M)	* HIST 121	Asian Civilizations in Modern Times (C,M,MMR)
CHIC 138	Literature of La Raza in Latin America in Translation (C,M)	* HIST 131	Latin America Before Independence(M)
CHIC 190	Chicano Images in Film (C,M)	* HIST 132	Latin America Since Independence(M)
* CHIC 210	Chicano Culture (C,M)	HUMA 101	Introduction to the Humanities I (C,M,MMR)
CHIN 102	Second Course in Mandarin Chinese (M)	HUMA 102	Introduction to the Humanities II (C,M,MMR)
CHIN 201	Third Course Mandarin Chinese (M)	HUMA 103	Introduction to the New Testament (C,M)
ENGL 208	Introduction to Literature (C,M,MMR)	HUMA 104	Introduction to the Old Testament (M)
ENGL 209	Literary Approaches to Film (C,M,MMR)	HUMA 106	World Religions (C,M,MMR)
ENGL 210	American Literature I (C,M,MMR)	HUMA 201	Mythology (C,M,MMR)
ENGL 211	American Literature II (C,M,MMR)	HUMA 205	Exploring Human Values through Film (M)
ENGL 215	English Literature I: 800-1799 (C,M,MMR)	ITAL 102	Second Course in Italian (C,M)
ENGL 216	English Literature II: 1800-Present (C,M,MMR)	ITAL 201	Third Course in Italian (C,M)
ENGL 220	Masterpieces of World Literature I: 1500 BCE - 1600 CE (C,M,MMR)	JAPN 102	Second Course in Japanese (M)
ENGL 221	Masterpieces of World Literature II: 1600 - Present (C,M,MMR)	JAPN 201	Third Course in Japanese (M)
ENGL 230	Asian American Literature (M,MMR)	JAPN 202	Fourth Course in Japanese (M)
ENGL 237	Women in Literature (C,MMR)	LATI 102	Second Course in Latin (M)
ENGL 240	Shakespeare (C,M)	LATI 201	Third Course in Latin (M)
		PHIL 102A	Introduction to Philosophy: Reality & Knowledge (C,M,MMR)
		PHIL 102B	Introduction to Philosophy: Values (C,M,MMR)
		PHIL 103	Historical Introduction to Philosophy (M)
		PHIL 104A	History of Western Philosophy (C,M)
		PHIL 104B	History of Western Philosophy (C,M)
		PHIL 105	Contemporary Philosophy (C)
		PHIL 106	Asian Philosophy (C,M)
		PHIL 107	Reflections on Human Nature (C,M,MMR)

PHIL 108	Perspectives on Human Nature & Society (C,M)	BLAS 100	Introduction to Black Studies (C,M)
PHIL 110	Philosophy of Religion (M)	+ BLAS 104	Black Psychology (C,M)
PHIL 111	Philosophy in Literature (C,M)	+ BLAS 115	Sociology from a Black Perspective (C)
PHIL 112	Philosophy of Science (M)	BLAS 116	Contemporary Social Problems From a Black Perspective (C,M)
PHIL 125	Philosophy of Women (C,M)	BLAS 130	The Black Family (C,M)
* PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (C,M)	BLAS 135	Introduction to Black Politics (C)
PHIL 130	Philosophy of Art and Music (C,M)	+ BLAS 140A	History of the U.S., Black Perspectives (C,M,MMR)
RUSS 102	Second Course in Russian (M)	+ BLAS 140B	History of the U.S., Black Perspectives (C,M,MMR)
RUSS 201	Third Course in Russian (M)	* BLAS 145A	Introduction to African History (C,M)
+ SPAN 102	Second Course in Spanish (C,M,MMR)	* BLAS 145B	Introduction to African History (C)
+ SPAN 201	Third Course in Spanish (C,M,MMR)	CHIC 110A	Introduction to Chicano Studies (C,M)
SPAN 215	Spanish for Spanish Speakers I (C,M,MMR)	CHIC 110B	Introduction to Chicano Studies (C,M)
SPAN 216	Spanish for Spanish Speakers II (C,M,MMR)	+ CHIC 141A	United States History From a Chicano Perspective (C,M)
TAGA 102	Second Course in Tagalog (M,MMR)	+ CHIC 141B	United States History From a Chicano Perspective (C,M)
TAGA 201	Third Course in Tagalog (M,MMR)	CHIC 150	History of Mexico (C,M)
VIET 102	Second Course in Vietnamese (M)	CHIC 170	La Chicana (M)
VIET 201	Third Course in Vietnamese (M)	CHIC 201	Pre-Columbian Cultures of MesoAmerica (C,M)

## Area 4—Social and Behavioral Sciences

### 3 courses, 9 semester/12-15 quarter units

Courses from at least two disciplines or an interdisciplinary sequence.

#### 4A: Anthropology and Archaeology Courses:

ANTH 103	Introduction to Cultural Anthropology (C,M,MMR)
ANTH 107	Introduction to Archaeology (C,M,MMR)
ANTH 200	Introduction to North American Indians (M)
ANTH 210	Introduction to California Indians (C,M)
ANTH 215	Cultures of Latin America (C,M)

#### 4B: Economics Courses:

ECON 120	Principles of Macroeconomics (C,M,MMR)
ECON 121	Principles of Microeconomics (C,M,MMR)

#### 4C: Ethnic Studies Courses:

* AMSL 104	Introduction to Deaf Culture (M)
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BLAS 100	Introduction to Black Studies (C,M)
+ BLAS 104	Black Psychology (C,M)
+ BLAS 115	Sociology from a Black Perspective (C)
BLAS 116	Contemporary Social Problems From a Black Perspective (C,M)
BLAS 130	The Black Family (C,M)
BLAS 135	Introduction to Black Politics (C)
+ BLAS 140A	History of the U.S., Black Perspectives (C,M,MMR)
+ BLAS 140B	History of the U.S., Black Perspectives (C,M,MMR)
* BLAS 145A	Introduction to African History (C,M)
* BLAS 145B	Introduction to African History (C)
CHIC 110A	Introduction to Chicano Studies (C,M)
CHIC 110B	Introduction to Chicano Studies (C,M)
+ CHIC 141A	United States History From a Chicano Perspective (C,M)
+ CHIC 141B	United States History From a Chicano Perspective (C,M)
CHIC 150	History of Mexico (C,M)
CHIC 170	La Chicana (M)
CHIC 201	Pre-Columbian Cultures of MesoAmerica (C,M)
* CHIC 210	Chicano Culture (C,M)
FILI 100	Filipino American Experience (M,MMR)
+ HIST 150	Native Americans in United States History (M,MMR)
+ HIST 151	Native Americans in United States History (M,MMR)
* SOCO 150	Sociology of Latinos/Latinas (C)

#### 4D: Gender Studies:

GEND 101	Introduction to Gender Studies (C)
+ HIST 141	Women in United States History I (C,M,MMR)
+ HIST 142	Women in United States History II (C,M,MMR)
* PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (C,M)
PSYC 133	Psychology of Women (M,MMR)

#### 4E: Geography Courses:

GEOG 102	Cultural Geography (C,M,MMR)
GEOG 104	World Regional Geography (C,M,MMR)
GEOG 154	Introduction to Urban Geography (M)



**4F: History Courses:**


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+ CHIC 141A	United States History from a Chicano Perspective (C,M)
* HIST 100	World History I (C,M,MMR)
* HIST 101	World History II (C,M,MMR)
* HIST 105	Introduction to Western Civilization I (C,M,MMR)
* HIST 106	Introduction to Western Civilization II (C,M,MMR)
+ HIST 109	History of the United States I (C,M,MMR)
+ HIST 110	History of the United States II (C,M,MMR)
HIST 115A	History of the Americas I (C,M)
HIST 115B	History of the Americas II (C,M)
* HIST 120	Introduction to Asian Civilizations (C,M,MMR)
* HIST 121	Asian Civilizations in Modern Times (C,M,MMR)
HIST 123	U.S. History from the Asian Pacific American Perspective (C, M)
HIST 130	The Modern Middle East (M)
* HIST 131	Latin America Before Independence (M)
* HIST 132	Latin America Since Independence(M)
+ HIST 141	Women in United States History I (C,M,MMR)
+ HIST 142	Women in United States History II (C,M,MMR)
+ HIST 150	Native Americans in United States History (M,MMR)
+ HIST 151	Native Americans in United States History (M,MMR)
HIST 154	Ancient Egypt (M)
HIST 175	California History (M)

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**4G: Interdisciplinary, Social & Behavioral Sciences:**

AGRI 100	Principles of Sustainable Agriculture (C)
+ CHIL 101	Human Growth and Development (C,M,MMR)
+ CHIL 103	Lifespan Growth and Development (MMR)
ENGL 202	Introduction to Linguistics (C,M)
FUTR 101	Introduction to Futures Studies (C)
JOUR 202	Introduction to Mass Communication (C,M,MMR)
NUTR 153	Cultural Foods (M)
PEAC 101	Introduction to Peace Studies (C)

PEAC 102	Nonviolence and Conflict Resolution (C)
PEAC 201	Environmental Sustainability, Justice and Ethics (C)
SOCO 223	Globalization and Social Change (C,M,MMR)
SUST 101	Introduction to Sustainability (C)

**4H: Political Science, Government & Legal Institutions Courses:**


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ADJU 101	Introduction to Administration of Justice (C,MMR)
ADJU 193	Concepts of Criminal Law (MMR)
ADJU 230	Constitutional Law I (MMR)
POLI 101	Introduction to Political Science (C,M,MMR)
POLI 102	The American Political System (C,M,MMR)
POLI 103	Comparative Politics (C,M,MMR)
POLI 140	Contemporary International Politics (C,M,MMR)
SOCO 223	Globalization and Social Change (C,M,MMR)

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**4I: Psychology Courses:**


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+ PSYC 101	General Psychology (C,M,MMR)
+ PSYC 121	Introduction to Child Psychology (M,MMR)
+ PSYC 123	Adolescent Psychology (MMR)
PSYC 133	Psychology of Women (M,MMR)
PSYC 135	Marriage and Family Relations (C,M,MMR)
+ PSYC 137	Human Sexual Behavior (C,M,MMR)
PSYC 155	Introduction to Personality (C,M,MMR)
PSYC 166	Introduction to Social Psychology (C,M,MMR)
PSYC 211	Learning (C,M,MMR)
PSYC 230	Psychology of Lifespan Development (C,M,MMR)
PSYC 245	Abnormal Psychology (C,M,MMR)

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**4J: Sociology & Criminology Courses:**


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PHIL 109	Issues in Social Philosophy (M)
+ SOCO 101	Principles of Sociology (C,M,MMR)
SOCO 110	Contemporary Social Problems (C,M,MMR)
SOCO 125	Sociology of the Family (C,M)

- \* SOCO 150 Sociology of Latinos/Latinas (C)
- SOCO 201 Advanced Principles of Sociology (C,M,MMR)
- SOCO 223 Globalization and Social Change (C,M,MMR)

## Area 5—Physical and Biological Sciences

**At least 2 courses required, 7-9 semester/9-12 quarter units.**

One Physical Science course and one Biological Science course; at least one must include a laboratory.

- One course in 5A (underlined courses include a lab component)
- One course in 5B (underlined courses include a lab component)

### 5A: Physical Science Courses:

- ASTR 101 Descriptive Astronomy (C,M,MMR)
- + ASTR 109 Practice in Observing Lab (C,M)
- + ASTR 111 Astronomy Lab (C,M,MMR)
- + CHEM 100 Fundamentals of Chemistry (C,M,MMR)
- + CHEM 100L Fundamentals of Chemistry Lab (C,M,MMR)
- CHEM 111 Chemistry in Society (C,M)
- CHEM 111L Chemistry in Society Laboratory (C,M)
- + CHEM 130 Introduction to Organic & Biological Chemistry (C,M,MMR)
- + CHEM 130L Introduction to Organic & Biological Chemistry Lab (C,M,MMR)
- + CHEM 152 Introduction to General Chemistry (C,M,MMR)
- + CHEM 152L Introduction to General Chemistry Lab (C,M,MMR)
- CHEM 200 General Chemistry I - Lecture (C,M,MMR)
- CHEM 200L General Chemistry I - Lab (C,M,MMR)
- CHEM 201 General Chemistry II - Lecture (C,M,MMR)
- CHEM 201L General Chemistry II - Lab (C,M,MMR)
- + CHEM 231 Organic Chemistry I - Lecture (C,M,MMR)
- + CHEM 231L Organic Chemistry I - Lab (C,M,MMR)
- CHEM 233 Organic Chemistry II - Lecture (C,M,MMR)
- CHEM 233L Organic Chemistry II - Lab (C,M,MMR)

- CHEM 251 Analytical Chemistry (C,M,MMR)
- + ENGN 110 Science for Technical Applications (C)
- GEOG 101 Physical Geography (C,M,MMR)
- GEOG 101L Physical Geography Lab (C,M,MMR)
- GEO 100 General Geology (C,M,MMR)
- GEO 101 General Geology Lab (C,M,MMR)
- GEO 104 Earth Science (C,M,MMR)
- + PHYN 100 Survey of Physical Science (C,M,MMR)
- + PHYN 101 Survey of Physical Science Lab (C,M,MMR)
- PHYN 120 Physical Oceanography (M,MMR)
- + PHYS 100 Introductory Physics (C, M)
- + PHYS 125 General Physics (C,M,MMR)
- + PHYS 126 General Physics II (C,M,MMR)
- + PHYS 180A General Physics I (C)
- + PHYS 180B General Physics II (C)
- + PHYS 181A General Physics Lab I (C)
- + PHYS 181B General Physics Lab II (C)
- + PHYS 195 Mechanics (C,M,MMR)
- + PHYS 196 Electricity and Magnetism (C,M,MMR)
- + PHYS 197 Waves, Optics and Modern Physics (C,M,MMR)

### 5B: Biological Science Courses:

- ANTH 102 Introduction to Physical Anthropology (C,M,MMR)
- ANTH 104 Laboratory in Physical Anthropology (C,M,MMR)
- + BIOL 100 Natural History Environmental Biology (M,MMR)
- BIOL 101 Issues In Environmental Biology (C)
- + BIOL 107 General Biology - Lecture and Lab (C,M,MMR)
- BIOL 110 Introduction to Oceanography (C,M)
- BIOL 115 Marine Biology (C,M,MMR)
- + BIOL 120 The Environment of Man (M)
- BIOL 130 Human Heredity (C,M,MMR)
- BIOL 131 Introduction to Biotechnology (MMR)
- + BIOL 180 Plants and People (C,M,MMR)
- BIOL 205 General Microbiology (C,M,MMR)
- BIOL 210A Introduction to the Biological Sciences I (C,M,MMR)
- BIOL 210B Introduction to the Biological Sciences II (C,M,MMR)
- + BIOL 215 Introduction to Zoology (C,M,MMR)
- BIOL 230 Human Anatomy (C,M,MMR)

BIOL 235	Human Physiology (C,M,MMR)
+ BIOL 250	Introduction to Botany (M,MMR)
PSYC 260	Introduction to Physiological Psychology (C,M,MMR)

## Area 6—Languages other than English

UC Requirement Only. In order to complete IGETC for the University of California system, students are required to demonstrate competence/proficiency in a language other than English equal to two years of high school study. Competence may be demonstrated through the following mechanisms:

1. Completion of two years of the same foreign language of high school level work with grades of "C" or better;
2. Completion of a course or courses at a college or university, with a grade of "C" or better in each course. Usually, one semester of college work in a language other than English is equivalent to two years of high school work;

Any one of the following course or courses completed with a grade of "C" or better, will fulfill the requirement.

### 6A: Languages Other Than English

AMSL 115	American Sign Language Level I (C,M)
AMSL 116	American Sign Language Level II (C,M)
AMSL 215	American Sign Language Level III (C,M)
AMSL 216	American Sign Language Level IV (C,M)
ARAB 101	First Course in Arabic (C)
ARAB 102	Second Course in Arabic (C)
CHIN 101	First Course in Mandarin Chinese (M)
CHIN 102	Second Course in Mandarin Chinese (M)
CHIN 201	Third Course in Mandarin Chinese (M)
FREN 101	First Course in French (C,M)
FREN 102	Second Course in French (C,M)
FREN 201	Third Course in French (C,M)
FREN 202	Fourth Course in French (C,M)
GERM 101	First Course in German (C,M)
GERM 102	Second Course in German (C,M)
GERM 201	Third Course in German (C,M)
ITAL 101	First Course in Italian (C,M)
ITAL 102	Second Course in Italian (C,M)

ITAL 201	Third Course in Italian (C,M)
JAPN 101	First Course in Japanese (M)
JAPN 102	Second Course in Japanese (M)
JAPN 201	Third Course in Japanese (M)
JAPN 202	Fourth Course in Japanese (M)
LATI 101	First Course in Latin (M)
LATI 102	Second Course in Latin (M)
LATI 201	Third Course in Latin (M)
RUSS 101	First Course in Russian (C,M)
RUSS 102	Second Course in Russian (M)
RUSS 201	Third Course in Russian (M)
+ SPAN 100	First/Second Course in Spanish-Accelerated (M)
+ SPAN 101	First Course in Spanish (C,M,MMR)
+ SPAN 102	Second Course in Spanish (C,M,MMR)
+ SPAN 201	Third Course in Spanish (C,M,MMR)
+ SPAN 202	Fourth Course in Spanish (C,M,MMR)
SPAN 215	Spanish for Spanish Speakers I (C,M,MMR)
SPAN 216	Spanish for Spanish Speakers II (C,M,MMR)
TAGA 101	First Course in Tagalog (M,MMR)
TAGA 102	Second Course in Tagalog (M,MMR)
TAGA 201	Third Course in Tagalog (M,MMR)
VIET 101	First Course in Vietnamese (M)
VIET 102	Second Course in Vietnamese (M)
VIET 201	Third Course in Vietnamese (M)

3. Achieve a satisfactory score on the SAT Subject Test in languages other than English, as listed below. If the test was taken before May 1995, the first score is the minimum; if the test was taken after May 1995, the second score is the minimum:

- Chinese With Listening: not offered before 1995/520
- French/French With Listening: 500/540
- German/German With Listening: 500/510
- Hebrew (Modern): 500/470
- Italian: 500/520
- Japanese With Listening: 500/510
- Korean/Korean With Listening: not offered before 1995/500

- Latin: 500/530
  - Spanish/Spanish With Listening: 500/520
4. Achieve a score of 3, 4 or 5 on a College Board Advanced Placement (AP) Examination in a language other than English.
  5. Achieve a score of 5 or higher on an International Baccalaureate (IB) Higher Level Examination in a language other than English.
  6. Satisfactorily complete a proficiency test administered by a community college, university or other college in a language other than English. The test must assess the student proficiency at a level equivalent to at least two years of high school language. The San Diego Community College District does not administer this test.
  7. Complete, with grades of C or better, two years of formal schooling at the sixth-grade level or higher in an institution where the language of instruction is not English. If secondary school was completed in a non-English-speaking country and the language of instruction of the secondary school was not English, language other than English proficiency can be certified for IGETC without further evaluation. The student must present appropriate documentation of attendance at the secondary school.
  8. Earn a passing grade on the international A level or O level exam in a language other than English.
  9. If an appropriate achievement test is not available to assert proficiency, have competency verified by a faculty member associated with a California community college. Such verification requires that the college provide a document on letterhead asserting that the student's proficiency in the language is equivalent to two years of high school study. See a counselor for more information. Only students who have no other means to verify foreign language proficiency may pursue this option. Students must petition for faculty member verification through the Evaluations Office.

***Completion of courses above proficiency level, with grades of C or better, may also be used to meet the requirement. Special Topics and Civilization courses DO NOT meet this requirement. See a Counselor.***

## California State University General Education Breadth (CSU GE)

The California State University General Education-Breadth (CSU GE) pattern is one option that allows California community college transfer students to fulfill the lower-division general education requirements of any California State University (CSU) campus. The curriculum consists of a 39-unit pattern with five areas of concentration.

For assistance in determining the most appropriate general education program, consult a counselor.

### Certification of CSU GE Requirements

Official notification from a California community college that a transfer student has completed courses fulfilling lower-division general education requirements occurs through a process of "certification". Certification is a legal agreement between the CSU and California Community Colleges.

It is the policy of the San Diego Community College District to provide certification of general education breadth requirements when such service is requested by the student. Certification of general education courses is generally requested when the CSU GE pattern has been completed.

### Additional CSU GE Information and Restrictions

- Completion of the CSU GE pattern is not an admission requirement nor does completion guarantee admission to any CSU campus or program.
- Certification is based on approved courses listed in the CSU GE pattern that are completed in the San Diego Community College District or from other regionally accredited institutions.
- Courses completed at a foreign college or university cannot be used to satisfy requirements for certification.
- Catalog rights do not apply to the CSU GE pattern.
- Prior to certification, students must complete a minimum of 3 units of general education within the CSU GE pattern or 12 units in residence at the San Diego Community College District.
- Official transcripts from all colleges and universities attended must be on file before

submitting an application for certification. The application is available in the Evaluations Office and/or Counseling Office.

- The CSU GE pattern is accepted by some California private and independent colleges and universities in satisfying lower division general education requirements.

*For additional information, consult a counselor.*

## The CSU GE Pattern (Option 2)

The following information is based on the 2011-2012 agreement and is distributed as follows:

() Colleges in parenthesis indicate where the course is approved for IGETC Requirements.

C—City College  
M—Mesa College  
MMR—Miramar College

\* Courses with asterisks are listed in more than one area but shall not be certified in more than one area.

# Courses with the number sign are listed more than once in the same area, but will only be used for certification once.

**Please note:** Courses required in Oral Communication (Area A1), Written Communication (Area A2), Critical Thinking (Area A3), and Mathematics and Quantitative Reasoning (Area B4) must be completed with grades of "C" or better for admission to most CSU campuses. *For additional information, consult a counselor.*

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

*No fewer than nine semester units (12-15 quarter units) including one course in A1, one course in A2, and one course in A3.*

### A1: Oral Communication

COMS 103	Oral Communication (C,M,MMR)
COMS 135	Interpersonal Communication (C,M,MMR)
COMS 170	Small Group Communication (C,M)

### A2: Written Communication

ENGL 101	Reading and Composition (C,M,MMR)
ENGL 105	Composition and Literature (C,M,MMR)

### A3: Critical Thinking

COMS 160	Argumentation (C,M,MMR)
ENGL 205	Critical Thinking and Intermediate Composition (C,M,MMR)
PHIL 100	Logic and Critical Thinking (C,M,MMR)
* PHIL 103	Historical Introduction to Philosophy (M)
PHIL 205	Critical Thinking and Writing in Philosophy (C,M,MMR)

## Area B. Scientific Inquiry and Quantitative Reasoning:

*No fewer than nine semester units (12-15 quarter units) Including:*

- One course in B1 (underlined courses include a lab component)
- One course in B2 (underlined courses include a lab component)
- One of the courses selected to fulfill the requirement for B1 or B2 must include a laboratory component or a separate course must be taken from B3. If a separate laboratory course is taken from B3, it must match one of the two lecture courses taken from B1 or B2.
- One course in B4

### B1: Physical Science

ASTR 101	Descriptive Astronomy (C,M,MMR)
CHEM 100	Fundamentals of Chemistry (C,M,MMR)
CHEM 111	Chemistry in Society (C,M)
CHEM 130	Introduction to Organic & Biological Chemistry (C,M,MMR)
CHEM 152	Introduction to General Chemistry (C,M,MMR)
CHEM 200	General Chemistry I-Lecture (C,M,MMR)
CHEM 201	General Chemistry II-Lecture (C,M,MMR)
CHEM 231	Organic Chemistry I-Lecture (C,M,MMR)

CHEM 233	Organic Chemistry II-Lecture (C,M,MMR)
CHEM 251	Analytical Chemistry (C,M,MMR)
ENGN 110	Science for Technical Applications (C)
GEOG 101	Physical Geography (C,M,MMR)
GEOL 100	General Geology (C,M,MMR)
GEOL 104	Earth Science (C,M,MMR)
MCTR 120A	Basic Physics for Technical Applications I (C)
MCTR 120B	Basic Physics for Technical Applications II (C)
PHYN 100	Survey of Physical Science (C,M,MMR)
PHYN 120	Physical Oceanography (M,MMR)
PHYS 100	Introductory Physics (C,M)
PHYS 125	General Physics (C,M,MMR)
PHYS 126	General Physics II (C,M,MMR)
PHYS 180A	General Physics I (C,MMR)
PHYS 180B	General Physics II (C,MMR)
PHYS 195	Mechanics (C,M,MMR)
PHYS 196	Electricity and Magnetism (C,M,MMR)
PHYS 197	Waves, Light and Modern Physics (C,M,MMR)

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**B2: Life Science**


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ANTH 102	Introduction to Physical Anthropology (C,M,MMR)
BIOL 100	Natural History-Environmental Biology (M,MMR)
BIOL 101	Issues in Environmental Biology (C)
BIOL 107	General Biology-Lecture and Laboratory (C,M,MMR)
BIOL 110	Introduction to Oceanography (C,M)
BIOL 111	Cancer Biology (C)
BIOL 115	Marine Biology (C,M,MMR)
BIOL 130	Human Heredity (C,M,MMR)
BIOL 131	Introduction to Biotechnology (MMR)
BIOL 160	Elements of Human Anatomy & Physiology (M,MMR)
BIOL 180	Plants and People (C,M,MMR)
BIOL 205	General Microbiology (C,M,MMR)
BIOL 210A	Introduction to the Biological Sciences I (C,M,MMR)
BIOL 210B	Introduction to the Biological Sciences II (C,M,MMR)
BIOL 215	Introduction to Zoology (C,M,MMR)
BIOL 230	Human Anatomy (C,M,MMR)

BIOL 235	Human Physiology (C,M,MMR)
BIOL 250	Introduction to Botany (M,MMR)
BIOL 255	California Plants (M)
PSYC 260	Introduction to Physiological Psychology (C,M,MMR)

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**B3: Laboratory Activity**


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ANTH 104	Laboratory in Physical Anthropology (C,M,MMR)
ASTR 109	Practice in Observing (C,M)
ASTR 111	Astronomy Laboratory (C,M,MMR)
CHEM 100L	Fundamentals of Chemistry Laboratory (C,M,MMR)
CHEM 111L	Chemistry in Society Laboratory (C,M)
CHEM 130L	Introduction to Organic & Biological Chemistry Laboratory (C,M,MMR)
CHEM 152L	Introduction to General Chemistry Laboratory (C,M,MMR)
CHEM 200L	General Chemistry I - Laboratory (C,M,MMR)
CHEM 201L	General Chemistry II - Laboratory (C,M,MMR)
CHEM 231L	Organic Chemistry I - Laboratory (C,M,MMR)
CHEM 233L	Organic Chemistry II - Laboratory (C,M,MMR)
GEOG 101L	Physical Geography Laboratory (C,M,MMR)
GEOL 101	General Geology Laboratory (C,M,MMR)
PHYN 101	Survey of Physical Science Laboratory (C,M,MMR)
PHYS 181A	General Physics Lab I (C,MMR)
PHYS 181B	General Physics Lab II (C,MMR)

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**B4: Mathematics/Quantitative Reasoning**


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BIOL 200	Biological Statistics (C,M)
MATH 104	Trigonometry (C,M,MMR)
MATH 107	Introduction to Scientific Programming (C)
MATH 107L	Introduction to Scientific Programming Laboratory (C)
MATH 116	College and Matrix Algebra (C,M,MMR)
MATH 115	Gateway to Experimental Statistics (C)
MATH 118	A Survey of Modern Mathematics (C,M,MMR)
MATH 119	Elementary Statistics (C,M,MMR)

MATH 121	Basic Techniques of Applied Calculus I (C,M,MMR)	ARTG 118	Graphic Design History (C,MMR)
MATH 122	Basic Techniques of Calculus II (C,M,MMR)	BLAS 110	African American Art (C,M)
MATH 141	Precalculus (C,M,MMR)	BLAS 111	African Art History (M)
MATH 150	Calculus with Analytic Geometry I (C,M,MMR)	BLAS 120	Black Music (C,M)
MATH 151	Calculus with Analytic Geometry II (C,M,MMR)	CHIC 230	Chicano Art (M)
MATH 181	Mecomtronics College Algebra and Trigonometry I (C)	DANC 181	Introduction to Dance (C,M)
MATH 182	Mecomtronics College Algebra and Trigonometry II (C)	DFLM 101	Introduction to Film (MMR)
MATH 183	Mecomtronics Calculus I (C)	DFLM 102	The American Cinema (MMR)
MATH 184	Mecomtronics Calculus II (C)	DRAM 105	Introduction to Dramatic Arts (C,M)
MATH 210A	Concepts of Elementary School Mathematics I (C,M,MMR)	DRAM 107	Study of Filmed Plays (C)
MATH 210B	Concepts of Elementary School Mathematics II (C,M,MMR)	DRAM 109	Theatre and Social Issues (C)
MATH 245	Discrete Mathematics (C,M,MMR)	DRAM 136	History of Canonized Theatre - Ancient Greece to the Restoration (C)
MATH 252	Calculus with Analytic Geometry III (C,M,MMR)	DRAM 137	History of Canonized Western Theatre - Restoration to the Present (C)
MATH 254	Introduction to Linear Algebra (C,M,MMR)	DRAM 150	Cinema as Art and Communication I (M)
MATH 255	Differential Equations (C,M,MMR)	DRAM 151	Cinema as Art and Communication II (M)
PSYC 258	Behavioral Science Statistics (C,M,MMR)	FASH 120	Fashion History and Trends (M)
		MUSI 100	Introduction to Music (C,M,MMR)
		MUSI 101	Music History I: Middle Ages to Mid 18th Century (M)
		MUSI 102	Music History II: Mid 18th to Early 20th Century (M)
		MUSI 103	History of Rock Music (MMR)
		MUSI 105	Music of Our Time (M)
		MUSI 109	World Music (C,M,MMR)
		MUSI 111	Jazz-History and Development (C,M,MMR)
		MUSI 125	Music, the Arts and Humanity (M)
		PHOT 150	History of Photography (C)
		RTVC 160	Introduction to Cinema (C)

## Area C. Arts and Humanities:

*Nine semester units (12-15 quarter units) with at least one course each in Arts and Humanities.*

### **C1: Arts (Art, Cinema, Dance, Music, Theater)**

	ARTF 100	Art Orientation (C,M,MMR)
	ARTF 107	Contemporary Art (M,MMR)
	ARTF 109	History of Modern Art (C,M,MMR)
	ARTF 110	Art History: Prehistoric to Gothic (C,M,MMR)
	ARTF 111	Art History: Renaissance to Modern (C,M,MMR)
	ARTF 113	Arts of Africa, Oceania, and the Americas (M,MMR)
	ARTF 115	African Art (C,M)
	ARTF 120	Native American Art (M)
	ARTF 125	Art History: Arts of the Asian Continent (M,MMR)
*	ARTF 191	Cultural Influences on Photography (M)
	ARTF 194	Critical Photography (M)

### **C2: Humanities (Literature, Philosophy, Languages Other than English)**

*	AMSL 104	Introduction to Deaf Culture (M)
	AMSL 115	American Sign Language Level I (C,M)
	AMSL 116	American Sign Language Level II (C,M)
	AMSL 215	American Sign Language Level III (C,M)
	AMSL 216	American Sign Language Level IV (C,M)
	ARAB 101	First Course in Arabic (C)
	ARAB 102	Second Course in Arabic (C)
*	ARTF 191	Cultural Influences on Photography (M)

BLAS 150	Black Women in Literature and the Media (C,M)	* HIST 120	Introduction to Asian Civilizations (C,M,MMR)
BLAS 155	Afro-American Literature (C,M)	* HIST 121	Asian Civilizations in Modern Times (C,M,MMR)
CHIC 130	Mexican Literature in Translation (C)	* HIST 131	Latin America Before Independence (M)
CHIC 135	Chicana/o Literature (C,M)	* HIST 132	Latin America Since Independence (M)
CHIC 138	Literature of La Raza in Latin America in Translation (C,M)	* HIST 154	Ancient Egypt (M)
CHIC 190	Chicano Images in Film (C,M)	HUMA 101	Introduction to the Humanities I (C,M,MMR)
CHIC 203	Introductory Spanish for Spanish Speakers (C)	HUMA 102	Introduction to the Humanities II (C,M,MMR)
CHIC 204	Intermediate Spanish for Spanish Speakers (C)	HUMA 103	Introduction to the New Testament (C,M)
CHIC 210	Chicano Culture (C,M)	HUMA 104	Introduction to the Old Testament (M)
CHIN 101	First Course in Mandarin Chinese (M)	HUMA 106	World Religions (C,M,MMR)
CHIN 102	Second Course in Mandarin Chinese (M)	HUMA 201	Mythology (C,M,MMR)
CHIN 201	Third Course in Mandarin Chinese (M)	HUMA 202	Mythology: Hero's Journey (C)
CHIN 202	Fourth Course in Mandarin Chinese (M)	HUMA 205	Exploring Human Values through Film (M)
ENGL 208	Introduction to Literature (C,M,MMR)	ITAL 101	First Course in Italian (C,M)
ENGL 209	Literary Approaches to Film (C,M,MMR)	ITAL 102	Second Course in Italian (C,M)
ENGL 210	American Literature I (C,M,MMR)	ITAL 201	Third Course in Italian (C,M)
ENGL 211	American Literature II (C,M,MMR)	JAPN 101	First Course in Japanese (M)
ENGL 215	English Literature I: 800-1799 (C,M,MMR)	JAPN 102	Second Course in Japanese (M)
ENGL 216	English Literature II: 1800-Present (C,M,MMR)	JAPN 201	Third Course in Japanese (M)
ENGL 220	Masterpieces of World Literature I: 1500 BCE - 1600 CE (C,M,MMR)	JAPN 202	Fourth Course in Japanese (M)
ENGL 221	Masterpieces of World Literature II: 1600 - Present (C,M,MMR)	LATI 101	First Course in Latin (M)
ENGL 230	Asian American Literature (M,MMR)	LATI 102	Second Course in Latin (M)
ENGL 237	Women in Literature (C,MMR)	LATI 201	Third Course in Latin (M)
ENGL 238	Evaluating Children's Literature (C,M)	PHIL 102A	Introduction to Philosophy: Reality and Knowledge (C,M,MMR)
ENGL 240	Shakespeare (C,M)	PHIL 102B	Introduction to Philosophy: Values (C,M,MMR)
FREN 101	First Course in French (C,M)	* PHIL 103	Historical Introduction to Philosophy (M)
FREN 102	Second Course in French (C,M)	PHIL 104A	History of Western Philosophy (C,M)
FREN 201	Third Course in French (C,M)	PHIL 104B	History of Western Philosophy (C,M)
FREN 202	Fourth Course in French (C,M)	PHIL 105	Contemporary Philosophy (C)
GERM 101	First Course in German (C,M)	PHIL 106	Asian Philosophy (C,M)
GERM 102	Second Course in German (C,M)	PHIL 107	Reflections on Human Nature (C,M,MMR)
GERM 201	Third Course in German (C,M)	PHIL 108	Perspectives on Human Nature and Society (C,M)
* HIST 100	World History I (C,M,MMR)	PHIL 110	Philosophy of Religion (M)
* HIST 101	World History II (C,M,MMR)	PHIL 111	Philosophy in Literature (C,M)
* HIST 105	Introduction to Western Civilization I (C,M,MMR)	PHIL 112	Philosophy of Science (M)
* HIST 106	Introduction to Western Civilization II (C,M,MMR)	PHIL 125	Philosophy of Women (C,M)



* PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (C,M)
PHIL 130	Philosophy of Art and Music (C,M)
RUSS 101	First Course in Russian (C,M)
RUSS 102	Second Course in Russian (M)
RUSS 201	Third Course in Russian (M)
SPAN 100	First/Second Course in Spanish - Accelerated (M)
SPAN 101	First Course in Spanish (C,M,MMR)
SPAN 102	Second Course in Spanish (C,M,MMR)
SPAN 201	Third Course in Spanish (C,M,MMR)
SPAN 202	Fourth Course in Spanish (C,M,MMR)
SPAN 215	Spanish for Spanish Speakers I (C,M,MMR)
SPAN 216	Spanish for Spanish Speakers II (C,M,MMR)
TAGA 101	First Course in Tagalog (M,MMR)
TAGA 102	Second Course in Tagalog (M,MMR)
TAGA 201	Third Course in Tagalog (M,MMR)
VIET 101	First Course in Vietnamese (M)
VIET 102	Second Course in Vietnamese (M)
VIET 201	Third Course in Vietnamese (M)

## Area D. Social Sciences:

*Nine semester units (12-15 quarter units) required with courses in at least two disciplines.*

### D0: Sociology and Criminology

ADJU 106	Diversity and Community Relations (MMR)
# BLAS 115	Sociology from a Black Perspective (C)
# BLAS 116	Contemporary Social Problems from a Black Perspective (C,M)
# BLAS 125	Dynamics of the Black Community (M)
# BLAS 130	The Black Family (C,M)
SOCO 101	Principles of Sociology (C,M,MMR)
SOCO 110	Contemporary Social Problems (C,M,MMR)
SOCO 125	Sociology of the Family (C,M)
# SOCO 150	Sociology of Latinos/Latinas (C)
SOCO 201	Advanced Principles of Sociology (C,M,MMR)
# SOCO 223	Globalization and Social Change (C,M,MMR)

### D1: Anthropology and Archaeology

ANTH 103	Introduction to Cultural Anthropology (C,M,MMR)
ANTH 107	Introduction to Archaeology (C,M,MMR)
# ANTH 200	Introduction to North American Indians (M)
ANTH 205	Introduction to Medical Anthropology (M)
# ANTH 210	Introduction to California Indians (C,M)
# ANTH 215	Cultures of Latin America (C,M)

### D2: Economics

ECON 120	Principles of Macroeconomics (C,M,MMR)
ECON 121	Principles of Microeconomics (C,M,MMR)

### D3: Ethnic Studies

* AMSL 104	Introduction to Deaf Culture (M)
# ANTH 200	Introduction to North American Indians (M)
# ANTH 210	Introduction to California Indians (C,M)
# ANTH 215	Cultures of Latin America (C,M)
BLAS 100	Introduction to Black Studies (C,M)
# BLAS 104	Black Psychology (C,M)
# BLAS 115	Sociology from a Black Perspective (C)
# BLAS 116	Contemporary Social Problems from a Black Perspective (C,M)
# BLAS 125	Dynamics of the Black Community (M)
# BLAS 130	The Black Family (C,M)
# BLAS 135	Introduction to Black Politics (C)
# BLAS 140A	History of the U.S., Black Perspectives (C,M,MMR)
# BLAS 140B	History of the U.S., Black Perspectives (C,M,MMR)
CHIC 110A	Introduction to Chicano Studies (C,M)
CHIC 110B	Introduction to Chicano Studies (C,M)
# CHIC 141A	United States History from a Chicano Perspective (C,M)
# CHIC 141B	United States History from a Chicano Perspective (C,M)
# CHIC 170	La Chicana (C,M)
CHIC 201	Pre-Columbian Cultures of MesoAmerica (C,M)
FILI 100	Filipino American Experience (M,MMR)

#	HIST 123	U.S. History from the Asian Pacific American Perspective (C,M)
#	HIST 150	Native Americans in United States History (M,MMR)
#	HIST 151	Native Americans in United States History (M,MMR)
#	SOCO 150	Sociology of Latinos/Latinas (C)

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#### D4: Gender Studies

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#	CHIC 170	La Chicana (C,M)
	GEND 101	Introduction to Gender Studies (C)
#	HIST 141	Women in United States History I (C,M,MMR)
#	HIST 142	Women in United States History II (C,M,MMR)
*	PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (C,M)
*#	PSYC 133	Psychology of Women (M,MMR)

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#### D5: Geography

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	GEOG 102	Cultural Geography (C,M,MMR)
	GEOG 104	World Regional Geography (C,M,MMR)
	GEOG 154	Introduction to Urban Geography (M)

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#### D6: History

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#	BLAS 140A	History of the U.S., Black Perspectives (C,M,MMR)
#	BLAS 140B	History of the U.S., Black Perspectives (C,M,MMR)
	BLAS 145A	Introduction to African History (C,M)
	BLAS 145B	Introduction to African History (C)
#	CHIC 141A	United States History from a Chicano Perspective (C,M)
#	CHIC 141B	United States History from a Chicano Perspective (C,M)
	CHIC 150	History of Mexico (C,M)
*	HIST 100	World History I (C,M,MMR)
*	HIST 101	World History II (C,M,MMR)
*	HIST 105	Introduction to Western Civilization I (C,M,MMR)
*	HIST 106	Introduction to Western Civilization II (C,M,MMR)
	HIST 109	History of the United States I (C,M,MMR)
	HIST 110	History of the United States II (C,M,MMR)

	HIST 115A	History of the Americas I (C,M)
	HIST 115B	History of the Americas II (C,M)
*	HIST 120	Introduction to Asian Civilizations (C,M,MMR)
*	HIST 121	Asian Civilizations in Modern Times (C,M,MMR)
#	HIST 123	U.S. History from the Asian Pacific American Perspective (C,M)
	HIST 130	The Modern Middle East (M)
*	HIST 131	Latin America Before Independence (M)
*	HIST 132	Latin America Since Independence (M)
#	HIST 141	Women in United States History I (C,M,MMR)
#	HIST 142	Women in United States History II (C,M,MMR)
#	HIST 150	Native Americans in United States History (M,MMR)
#	HIST 151	Native Americans in United States History (M,MMR)
*	HIST 154	Ancient Egypt (M)
	HIST 175	California History (M)

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#### D7: Interdisciplinary Social or Behavioral Science

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	AGRI 100	Principles of Sustainable Agriculture (C)
*	CHIL 101	Human Growth and Development (C,M,MMR)
*	CHIL 103	Lifespan Growth and Development (MMR)
	CHIL 141	The Child, Family and Community (C,M,MMR)
	ENGL 202	Introduction to Linguistics (C,M)
	FUTR 101	Introduction to Futures Studies (C)
	FUTR 102	Creating Futures: Methods and Tools (C)
	FUTR 103	Emerging Technologies (C)
	JOUR 202	Introduction to Mass Communication (C,M,MMR)
	NUTR 153	Cultural Foods (M)
	PEAC 101	Introduction to Peace Studies (C)
	PEAC 102	Nonviolence and Conflict Resolution (C)
	PEAC 201	Environmental Sustainability, Justice and Ethics (C)
	PHIL 109	Issues in Social Philosophy (M)
#	SOCO 223	Globalization and Social Change (C,M,MMR)

SUST 101 Introduction to Sustainability (C)

### D8: Political Science, Government, and Legal Institutions

	ADJU 101	Introduction to Administration of Justice (C,MMR)
	ADJU 193	Concepts of Criminal Law (MMR)
	ADJU 230	Constitutional Law I (MMR)
#	BLAS 135	Introduction to Black Politics (C)
	POLI 101	Introduction to Political Science (C,M,MMR)
	POLI 102	The American Political System (C,M,MMR)
	POLI 103	Comparative Politics (C,M,MMR)
	POLI 140	Contemporary International Politics (C,M,MMR)
#	SOCO 223	Globalization and Social Change (C,M,MMR)

### D9: Psychology

#	BLAS 104	Black Psychology (C,M)
	PSYC 101	General Psychology (C,M,MMR)
	PSYC 121	Introduction to Child Psychology (M,MMR)
	PSYC 123	Adolescent Psychology (MMR)
*#	PSYC 133	Psychology of Women (M,MMR)
*	PSYC 135	Marriage and Family Relations (C,M,MMR)
*	PSYC 137	Human Sexual Behavior (C,M,MMR)
	PSYC 155	Introduction to Personality (C,M,MMR)
	PSYC 166	Introduction to Social Psychology (C,M,MMR)
	PSYC 211	Learning (C,M,MMR)
*	PSYC 230	Psychology of Lifespan Development (C,M,MMR)
	PSYC 245	Abnormal Psychology (C,M,MMR)

### Area E. Lifelong Learning and Self-Development:

Three semester units (4-5 quarter units).

	BIOL 120	The Environment of Man (M)
*	CHIL 101	Human Growth and Development (C,M,MMR)
*	CHIL 103	Lifespan Growth and Development (MMR)

	COMS 180	Intercultural Communication (C,M,MMR)
	HEAL 101	Health and Life Style (C,M,MMR)
	NUTR 150	Nutrition (M,MMR)
	NUTR 153	Cultural Foods (M)
	PERG 120	College Success and Lifelong Learning (C,M,MMR)
	PERG 130	Career - Life Planning (C,M,MMR)
	PERG 140	Life Skills and Personal Adjustment (C,M,MMR)
	PHYE 103	Aerobic Dance (C,M,MMR)
	PHYE 123	Fitness Activities (C,M,MMR)
	PHYE 132	Individual Conditioning (C,M,MMR)
	PHYE 168	Yoga (C,M)
	PHYE 182	Adapted Weight Training (C,M)
	PSYC 111	Psychological/Social Aspects of Aging, Death and Dying (C,M)
	PSYC 112	Interpersonal Relations (M)
	PSYC 128	Biofeedback and Stress Management (M)
*	PSYC 135	Marriage and Family Relations (C,M,MMR)
*	PSYC 137	Human Sexual Behavior (C,M,MMR)
*	PSYC 230	Psychology of Lifespan Development (C,M,MMR)



## Guarantee Admission Programs

Mesa College offers a number of Guarantee Admissions Programs. Come to the Transfer Center or visit the website ([www.sdmesa.edu/transfer-center](http://www.sdmesa.edu/transfer-center)) for program requirements. Plan early as some agreements must be submitted at least a year in advance of the transfer semester/quarter.

### The most popular Guarantee Admission Programs are:

- **University of California, San Diego Transfer Admission Guarantee (TAG)**
- **San Diego State University Transfer Admission Guarantee (TAG)**

- **University of California, San Diego UniversityLink Program**  
Open to students who are recent graduates of a San Diego County high school. See Transfer Center for details. ([UC Links](#))

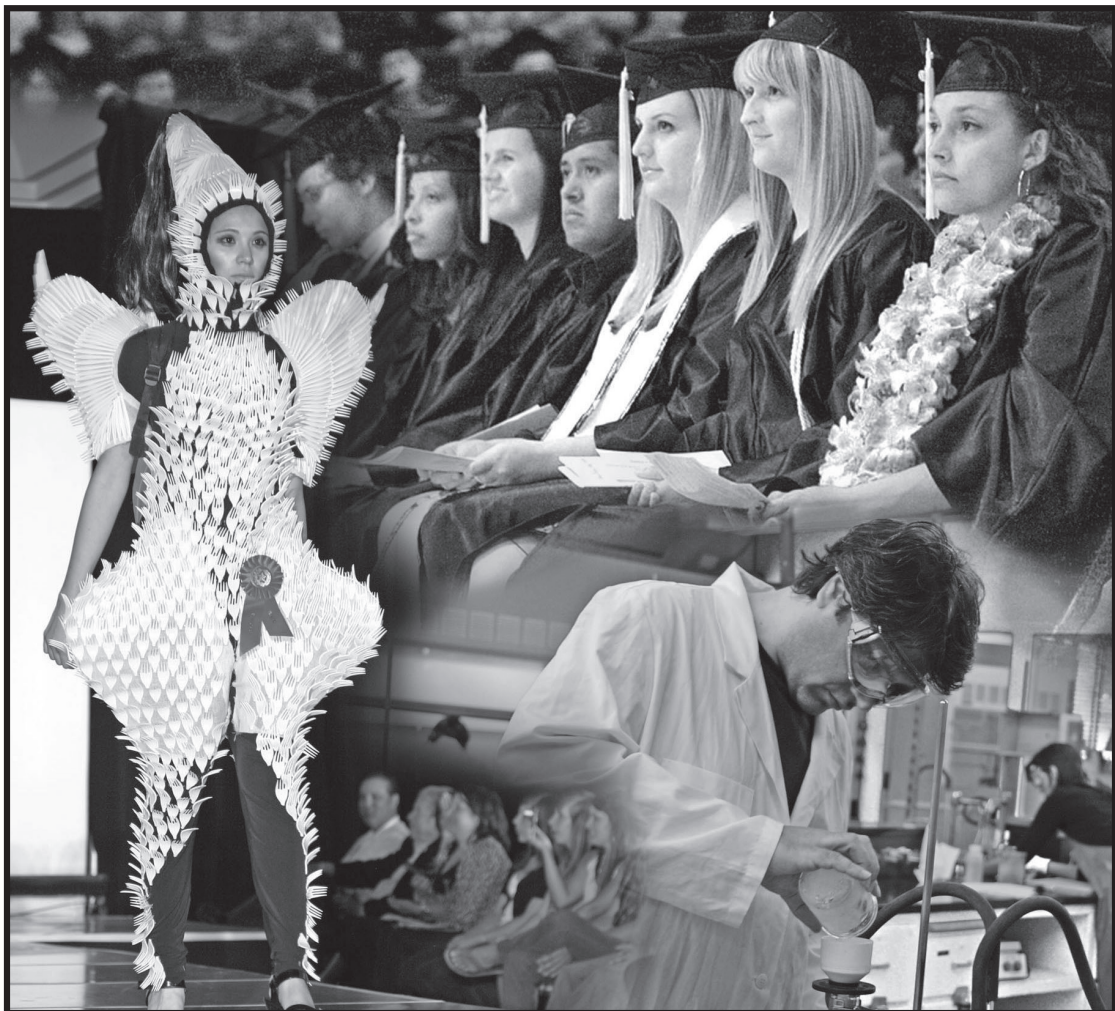
**Other Transfer programs include:**

- **University of California, Davis Transfer Admission Guarantee Program (TAG)**
- **University of California, Irvine Transfer Admission Guarantee (TAG)**
- **University of California, Riverside Transfer Admission Guarantee Program (TAG)**
- **University of California, Santa Barbara Transfer Admission Guarantee (TAG)**
- **University of California, Santa Cruz Transfer Admission Guarantee (TAG)**

**Note:** Eligibility and coursework requirements differ for each of these programs. See a counselor or visit the Transfer Center for more information.

Students who qualify for the college Honors Program may also be eligible for additional transfer guarantee programs and benefits. Visit the Honors Program office for more information.

# Degree Curricula and Certificate Programs



# Degree and Certificate List

Degree	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>Accounting</b>		X	X		131
Governmental/Nonprofit Accounting				X	131
<b>American Sign Language</b>					
American Sign Language Studies	X		X		133
English Interpreting	X		X		133
<b>Animal Health Technology</b>		X			134
<b>Anthropology</b>	X				135
<b>Architecture</b>					
Architecture Survey		X	X		138
Architecture Technician		X	X	X	137
Architecture Transfer		X	X	X	137
Computer Aided Drafting				X	137
Construction Management		X	X		139
Garden Design				X	138
Landscape Architecture Technician		X	X	X	138
Landscape Architecture Transfer		X	X		139
Woodbury Transfer Track			X		139
Woodbury University Transfer Track		X			141
<b>Art - Fine Arts</b>					
Art History Emphasis	X				143
Ceramics Emphasis	X				143
Digital Art Emphasis	X				144
Fine Art				X	142
Museum Studies				X	142
Museum Studies Emphasis	X				144
Three-Dimensional Emphasis	X				145
Two-Dimensional Emphasis	X				145
Photography and New Genres Emphasis	X				146
<b>Biology</b>					
Applied Biology Track		X			148
Applied Biotechnology				X	148
Allied Health Track		X			148
Transfer Track		X			148
<b>Black Studies</b>	X				150
<b>Building Construction Technology</b>					
Inspection		X	X		151
<b>Business Administration</b>		X	X		152
<b>Business Management</b>		X	X		153

# Degree and Certificate List

Degree	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>Chemistry</b>		X	X		154
Chemistry Technician		X	X		155
Preparation for Chemistry Lab. Positions				X	154
<b>Chicano Studies</b>	X				156
<b>Child Development</b>		X			159
Assistant Teacher				X	157
Associate Teacher			X		158
Home Day Care				X	158
Master Teacher			X		158
Teacher			X		159
<b>Communication Studies</b>	X			X	161
<b>Computer Business Technology</b>					
Administrative Assistant		X	X		163
Desktop Publishing				X	162
General Office Clerk				X	163
Information Management Technology		X	X		164
Keyboarder/Word Processor				X	163
Microcomputer Applications		X	X		164
<b>Computer and Information Sciences</b>		X	X		166
Computer Programming				X	165
Microsoft Certified System Engineer				X	166
<b>Consumer Studies</b>					
Consumer Resource Management		X	X		167
Skills for Success				X	167
<b>Culinary Arts/Culinary Management in Hospitality</b>		X	X		169
<b>Dance</b>				X	170
<b>Dental Assisting (RDA,CDA)</b>		X	X		172
<b>Dramatic Arts</b>	X				173
<b>Engineering</b>		X	X		175
<b>English</b>	X				177
Creative Writing				X	177
<b>Event Management</b>	X		X		179
<b>Fashion</b>					
Fashion Design		X	X		181
Fashion Merchandising		X	X		182
Computer Fashion Technology: Design		X	X		182
Computer Fashion Technology: Merchandising		X	X		182
<b>French</b>	X				185

# Degree and Certificate List

Degree	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>Geographic Information Systems</b>		X			186
Geographic Information Systems Technician				X	186
<b>Geography</b>	X				188
<b>Health Information Technology</b>		X			189
<b>History</b>	X				190
<b>Hotel Management</b>		X	X		192
<b>Interior Design</b>		X	X		194
<b>Japanese</b>	X				195
<b>Liberal Arts</b>					
Honors Global Competencies				X	196
<b>Liberal Arts and Sciences</b>					
Emphasis in Arts Studies - Art	X				199
Emphasis in Arts Studies - Dance	X				200
Emphasis in Arts Studies - Drama	X				200
Emphasis in Arts Studies - Music	X				201
Emphasis in Business Studies	X				201
Emphasis in Language Arts and Humanities Studies - Chinese	X				203
Emphasis in Language Arts and Humanities Studies - Communication and Journalism	X				203
Emphasis in Language Arts and Humanities Studies - English	X				204
Emphasis in Language Arts and Humanities Studies - French	X				204
Emphasis in Language Arts and Humanities Studies - German	X				205
Emphasis in Language Arts and Humanities Studies - Italian	X				205
Emphasis in Language Arts and Humanities Studies - Japanese	X				206
Emphasis in Language Arts and Humanities Studies - Latin	X				206
Emphasis in Language Arts and Humanities Studies - Philosophy	X				207
Emphasis in Language Arts and Humanities Studies - Russian	X				208
Emphasis in Language Arts and Humanities Studies - Spanish	X				208
Emphasis in Language Arts and Humanities Studies - Tagalog	X				209
Emphasis in Language Arts and Humanities Studies - Vietnamese	X				210
Emphasis in Mathematics and Pre-Engineering Studies - Mathematics	X				211



# Degree and Certificate List

<b>Degree</b>	<b>A.A. Degree</b>	<b>A.S. Degree</b>	<b>Certificate of Achievement</b>	<b>Certificate of Performance</b>	<b>Page</b>
Emphasis in Mathematics and Pre - Engineering Studies - Computer Science	X				211
Emphasis in Mathematics and Pre-Engineering Studies - Engineering	X				212
Emphasis in Science Studies - Biological Sciences	X				212
Emphasis in Science Studies - Physical Sciences - Chemistry	X				213
Emphasis in Science Studies - Physical Sciences - Physics	X				214
Emphasis in Science Studies - Physical Sciences - Earth Sciences	X				214
Emphasis in Science Studies - Physical Sciences - Pre-Nursing	X				214
Emphasis in Science Studies - Physical Sciences - Kinesiology and Nutrition	X				215
Emphasis in Science Studies - Physical Sciences - Psychology	X				215
Emphasis in Social and Behavioral Sciences - Anthropology	X				216
Emphasis in Social and Behavioral Sciences - Child Development	X				216
Emphasis in Social and Behavioral Sciences - Economics	X				217
Emphasis in Social and Behavioral Sciences - Human Development	X				217
Emphasis in Social and Behavioral Sciences - History	X				218
Emphasis in Social and Behavioral Sciences - Political Science	X				218
Emphasis in Social and Behavioral Sciences - Psychology	X				219
Emphasis in Social and Behavioral Sciences - Social Sciences	X				222
Emphasis in Social and Behavioral Sciences - Sociology	X				222
Emphasis in Social and Behavioral Sciences - Women's Studies	X				223
Psychology for Transfer	X				219
Sociology for Transfer	X				221
<b>Liberal Studies</b>					
Elementary Education Preparation	X				224
<b>Marketing</b>		X	X		225
<b>Mathematics</b>	X				226
Applied Mathematics Option	X				226

# Degree and Certificate List

Degree	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>Medical Assisting</b>		X	X		228
Phlebotomy				X	227
<b>Multimedia</b>		X			230
3D Animation and Modeling			X		230
Digital Video				X	229
Flash				X	229
Interactive Media Production			X		230
Multimedia Survey				X	229
New Media Publishing				X	229
Video Game Development				X	230
<b>Music</b>					
Basic Musicianship	X				232
Music Composition				X	231
Music Technology				X	231
Music Theory				X	232
<b>Nutrition</b>		X	X		234
Dietetic Service Supervisor				X	234
Nutrition and Fitness		X	X		235
<b>Philosophy</b>	X				236
<b>Physical Education</b>	X				237
Fitness Specialist			X		237
<b>Physical Sciences</b>					
Physical Sciences (General)		X	X		239
<b>Physical Therapist Assistant</b>		X			241
<b>Physics</b>		X	X		242
<b>Political Science</b>	X				243
<b>Psychology</b>	X				244
Mental Health Advocate/Aide			X		244
<b>Radiologic Technology</b>		X	X		246
<b>Real Estate</b>		X			247
<b>Social Sciences</b>					
Global Culture Studies				X	248
Social Sciences - General		X			248
<b>Sociology</b>	X				250
<b>Spanish</b>	X				251
<b>Web Development</b>					
Web Design		X	X		252
<b>Women's Studies</b>				X	253

# Accounting

Award Type	Units
<b>Certificate of Performance:</b>	
Government/Nonprofit Accounting	14
<b>Certificate of Achievement:</b>	
Accounting	23
<b>Associate in Science Degree:</b>	
Accounting	39*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

Qualifies the graduate as a bookkeeper, account clerk, accounting technician, audit or tax aide, or accountant trainee. Subjects of immediate practical value enable the student to work part-time in the field while completing the curriculum. The certificate program is for students desiring early employment. Students planning to transfer to a four-year college or university as an accounting major should major in Business Administration.

## Student Learning Outcomes

Students who complete the Accounting Program will gain facility with:

- **Critical Thinking:** Students will be able to analyze, prepare, and present solutions to business problems, apply business concepts in a decision-making environment, and evaluate and weigh evidence in the course of deriving conclusions concerning alternative courses of action, using inductive and deductive logical reasoning and methodological processes.
- **Communication:** Students will be able to articulate and explain critical thinking outcomes in writing and speaking, as well as by other contemporary recognized modes of business communication.
- **Personal Actions and Civic Responsibility:** Students will be able to analyze and accept responsibility for their own actions and make ethical decisions in the business environment.
- **Technological Awareness:** Students will understand and apply the use of modern technology to business situations.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Performance: Governmental/Nonprofit Accounting\*

Courses:	Units
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4
ACCT 125 Government & Not-for-Profit Accounting	3
<b>Select one course from:</b>	
CBTE 180 Microsoft Office	
ACCT 150 Computer Accounting Applications	3
<b>Total Units = 14</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Achievement: Accounting

Courses Required for the Major:	Units
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4
ACCT 150 Computer Accounting Applications	3
ACCT 201A Intermediate Accounting I	3
BUSE 119 Business Communications	3
CBTE 180 Microsoft Office	3
<b>Select one course from:</b>	
ACCT 120 Federal Income Tax	
ACCT 125 Government & Not-for-Profit Accounting	
ACCT 135 Principles of Auditing	
ACCT 201B Intermediate Accounting II	3
<b>Total Units = 23</b>	

## Associate in Science Degree: Accounting

Courses Required for the Major:	Units
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4
ACCT 150 Computer Accounting Applications	3
ACCT 201A Intermediate Accounting I	3
ACCT 201B Intermediate Accounting II	3

BUSE 100	Introduction to Business (recommended as a first semester course)	3
BUSE 119	Business Communications	3
BUSE 140	Business Law and the Legal Environment	3
CISC 181	Principles of Information Systems	4
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3

**Select one course from the following:**

ACCT 120	Federal Income Tax	
ACCT 125	Government & Not-for-Profit Accounting	
ACCT 135	Principles of Auditing	3

**Total Units = 39**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Accounting 120, 121, 125, 135, 270 (if not taken above); Business 150, 155, 201; Communication Studies 135; Computer and Information Sciences 181; Computer Business Technology 140, 140A; Psychology 101.

**Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

**Allied Health**

- See "Animal Health Technology" on page 134.
- See "Nutrition" on page 233.
- See "Dental Assisting (RDA, CDA)" on page 171.
- See "Health Information Technology" on page 189.
- See "Medical Assisting" on page 227.
- See "Physical Therapist Assistant" on page 240.
- See "Radiologic Technology" on page 245.

**American Indian Studies**

Courses relating to the American Indians are offered through an interdisciplinary approach in the following areas:

**Anthropology**

- Introduction to North American Indians
- Introduction to California Indians

**Art**

- North American Indian Arts

**History**

- Native Americans in United States History

**American Sign Language/ Interpreting**

Award Type	Units
<b>Certificate of Achievement:</b>	
American Sign Language Studies	31
English Interpretation	32
<b>Associate in Arts Degree:</b>	
American Sign Language Studies	31*
English Interpretation	32*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

**Description**

The Interpreter Training Program will prepare the student for a career in the field of sign language interpretation/ transliteration. Provides theoretical and practical knowledge in all aspects of community and academic interpreting. This program provides instruction in the various aspects of interpretation/ transliteration skills to students who possess intermediate skills in American Sign Language. Prepares the student for certification by the Registry of Interpreters for the Deaf and/or National Association of the Deaf and/or San Diego County Educational Interpreter Evaluation.

**Student Learning Outcomes**

- Students who complete the American Sign Language/Interpreting Program will be able to:
- Develop receptive and expressive skills in American Sign Language and Fingerspelling.

- Develop knowledge and awareness of the differences between the Deaf Culture/deaf community and the hearing community.
- Accurately interpret and transliterate between ASL and English in a variety of settings: face-to-face, small group settings, monologue and/or large group settings.
- Apply professional standards, practices, and ethics, not limited to the tenets of the Code of Professional Conduct, to their work.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: American Sign Language Studies

Courses Required for the Major:		Units
AMSL 104	Introduction to Deaf Culture	3
AMSL 105	Implications of Deafness	3
AMSL 108	Fingerspelling for Interpreters	2
AMSL 115	American Sign Language Level I	4
AMSL 115L	American Sign Language I (Lab)	1
AMSL 116	American Sign Language Level II	4
AMSL 116L	American Sign Language II (Lab)	1
AMSL 215	American Sign Language Level III	4
AMSL 215L	American Sign Language III (Lab)	1
AMSL 216	American Sign Language Level IV	4
AMSL 216L	American Sign Language IV (Lab)	1
AMSL 225	Introduction to Linguistics of American Sign Language	3
<b>Total Units = 31</b>		

## Associate in Arts Degree: American Sign Language Studies

Courses Required for the Major:		Units
AMSL 104	Introduction to Deaf Culture	3
AMSL 105	Implications of Deafness	3
AMSL 108	Fingerspelling for Interpreters	2
AMSL 115	American Sign Language Level I	4
AMSL 115L	American Sign Language I (Lab)	1
AMSL 116	American Sign Language Level II	4
AMSL 116L	American Sign Language II (Lab)	1
AMSL 215	American Sign Language Level III	4
AMSL 215L	American Sign Language III (Lab)	1
AMSL 216	American Sign Language Level IV	4
AMSL 216L	American Sign Language IV (Lab)	1
AMSL 225	Introduction to Linguistics of American Sign Language	3
<b>Total Units = 31</b>		

**Note:** Only one American Sign Language (AMSL) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Certificate of Achievement: English Interpretation

Courses Required for the Major:		Units
AMSL 104	Introduction to Deaf Culture	3
AMSL 105	Implications of Deafness	3
AMSL 108	Fingerspelling for Interpreters	2
AMSL 205	Interpreting Skills I	3
AMSL 206	Interpreting Skills II	3
AMSL 207	Sign-to-Voice Interpreting I	3
AMSL 208	Sign-to-Voice Interpreting II	3
AMSL 209	Professional Aspects of Interpreting	3
AMSL 210	Introduction to Specialized Settings	3
AMSL 225	Introduction to Linguistics of American Sign Language	3
AMSL 276	Field Work in Interpreting	3
<b>Total Units = 32</b>		

## Associate in Arts Degree: English Interpretation

Courses Required for the Major:		Units
AMSL 104	Introduction to Deaf Culture	3
AMSL 105	Implications of Deafness	3
AMSL 108	Fingerspelling for Interpreters	2
AMSL 205	Interpreting Skills I	3
AMSL 206	Interpreting Skills II	3
AMSL 207	Sign-to-Voice Interpreting I	3
AMSL 208	Sign-to-Voice Interpreting II	3
AMSL 209	Professional Aspects of Interpreting	3
AMSL 210	Introduction to Specialized Settings	3
AMSL 225	Introduction to Linguistics of American Sign Language	3
AMSL 276	Field Work in Interpreting	3
<b>Total Units = 32</b>		

**Note:** Only one American Sign Language (AMSL) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** American Sign Language/ Interpreting 108; Anthropology 103; Communication Studies 101; English 101, 202. See American Sign Language course descriptions for additional courses.

# Animal Health Technology

## Award Type Units

**Associate in Arts Degree:**  
Animal Health Technology 46\*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

Prepares students for employment as an assistant to graduate veterinarians in private veterinary facilities, biomedical research institutions, regulatory agencies, and zoological parks.

The program is approved by the California Department of Consumer Affairs, Veterinary Medical Board. Graduates may become Registered Veterinary Technicians (RVT) upon passing an examination offered by the California Department of Consumer Affairs.

Eligibility for enrollment in this program is determined by a special admission procedure. Interested persons should call the Special Programs Admissions Clerk in the Admissions Office at 619-388-2684. Course repetition in this program is not permitted.

## Student Learning Outcomes

Students who complete the Animal Health Technology Program will be able to:

- Properly and safely restrain the various species that are commonly seen in veterinary medicine.
- Properly and accurately perform and record a thorough physical exam using medical terminology on the various species seen in veterinary medicine.
- Properly and accurately collect, analyze, and interpret blood, urine, and fecal samples from small animals, exotics, pocket pets, avians, and large animals.

- Produce a series of diagnostic radiographs in common domestic species.
- Induce anesthesia, monitor the patient during the procedure, and then recover the animal completely from the anesthetic and surgical event.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Directed Clinical Practice Requirement

Students accepted into this program will be required to successfully complete Directed Clinical Practice/ clinically-based courses held in health care facilities. These facilities may require background checks, including fingerprinting, as a condition of placement at the clinic.

Refusal to submit to a background check, or failure to meet clearance criteria established by the health care facility, may prevent placement in the Directed Clinical Practice/clinically-based course and thus, it may not be possible to successfully complete the program.

Health care facilities also require adherence to strict standards of conduct. Facilities may refuse educational access to any person who does not adhere to the facility's standards of safety, health and ethical behavior. This may be cause for removal from the program.

## Associate in Science Degree: Animal Health Technology

Courses Required for the Major:		Units
ANHL 100A	Animal Care and Management	1.5
ANHL 100B	Advanced Animal Care and Management	1.5
ANHL 105	Fundamentals of Animal Health Technology	3
ANHL 105L	Fundamentals of Animal Health Technology	2
ANHL 115	Veterinary Office Procedures	2
ANHL 120	Comparative Physiological Anatomy	4
ANHL 125	Veterinary Clinical Pathology	3
ANHL 125L	Veterinary Clinical Pathology Laboratory	2
ANHL 135	Veterinary Pharmacology	2
ANHL 205	Diseases of Domestic Animals	3
ANHL 215	Veterinary Radiography	3
ANHL 215L	Veterinary Radiography Laboratory	1

ANHL 225	Animal Nursing Techniques and Anesthesiology	3
ANHL 226A	Surgical Nursing Procedures Lab I	1
ANHL 226B	Surgical Nursing Procedures Lab II	1
ANHL 235A	Directed Clinical Practice	2
ANHL 235B	Advanced Directed Clinical Practice	2
BIOL 107	General Biology-Lecture and Lab	4
BIOL 205	General Microbiology	5

**Total Units = 46**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Elective:** Animal Health Technology 290.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Anthropology

Award Type	Units
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<b>Associate in Arts Degree:</b> Anthropology	18*
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\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

Students planning a major in anthropology should prepare themselves with undergraduate courses which complement that major. An undergraduate major in anthropology is not intended to be a training program, since professional anthropologists draw their experiences from a variety of academic backgrounds and personal

experiences. It is recommended that a student who plans an anthropology major consult one of the anthropologists on the faculty for advice on courses that will be most valuable. For all students, anthropology will provide a unique cross-cultural understanding of other peoples. It is a program suited for transfer students who wish to major or minor in Anthropology.

### Student Learning Outcomes

Students who complete the Anthropology Program will gain facility with:

- **Critical Thinking:** identify the differences between science and religion.
- **Global Awareness:** identify the varieties of human biological and cultural adaptations.
- **Communication:** articulate in writing an understanding of biocultural interaction.
- **Social Responsibility:** demonstrate an understanding of the consequences of ethnocentrism.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Associate in Arts Degree: Anthropology

Courses Required for the Major:		Units
ANTH 102	Intro to Physical Anthropology	3
ANTH 103	Intro to Cultural Anthropology	3
ANTH 107	Intro to Archaeology	3
ANTH 200	Intro to North American Indians	3
ANTH 210	Intro to California Indians	3
ANTH 215	Cultures of Latin American	3

**Total Units = 18**

**Note:** Only one Anthropology (ANTH) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Anthropology 104, 115, 120; Biology 100, 110, 215, 230, 250, 255; Communication Studies 103 or 135; Computer and Information Sciences 150; English 211, 215, 220; Foreign Languages\*; Geography 101, 102; Geology

100, 101; History 105, 106, 150, 151; Philosophy 102A; Psychology 101, 112, 258 (or Math 119), 260; Sociology 101, 110; ; Political Science 140.

\*Although no course in a foreign language is specified in the above course sequence, a minimal familiarity with one foreign language is desirable. The particular language should be selected in consultation with the Behavioral Science Department anthropologists.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Architecture

Award Type	Units
<b>Certificate of Performance:</b>	
Architecture Technician	17
Architecture Transfer	12-16
Computer Aided Drafting	11
Garden Design	16
Landscape Architecture Technician	14
<b>Certificate of Achievement:</b>	
Architecture Survey	31
Architecture Technician	28
Architecture Transfer	35
Construction Management	29
Landscape Architecture Technician	31
Landscape Architecture Transfer	27
Woodbury Transfer Track	35
<b>Associate in Science Degree:</b>	
Architecture Survey	31*
Architecture Technician	28*
Architecture Transfer	35*
Construction Management	29*
Landscape Architecture Technician	31*
Landscape Architecture Transfer	27*
Woodbury University Transfer Track	35*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

The Architecture Program is designed for those who desire employment in architects' or engineers' offices or who plan to enter a college of architecture or engineering. Emphasis is placed on the office practices, procedures, principles and ethics of these professions. Students planning to transfer to a school of architecture should consult with architectural counselors to select acceptable transfer courses.

### Landscape Architecture Option

The landscape architecture program is designed to train individuals to have employable technical skills related to professional landscape design development, or to prepare those who plan to enter a college of landscape architecture. Students planning to transfer to a school of landscape architecture should consult with landscape architectural counselors to select acceptable transfer courses.



## Woodbury University Option

Woodbury University is a fully accredited private university with a satellite campus in San Diego. Students who maintain a 3.0 average in all San Diego Mesa College architecture design studies qualify for transfer to Woodbury's third year design studio (Design Studio 5) with portfolio review.

### Program Goals

The program is designed for students wishing to transfer to university programs in architecture and landscape architecture leading to B.A.Arch. and M.A.Arch. degrees and for students seeking employment in professional design offices.

### Career Options

Students seeking licensure as architects can transfer to university programs in architecture, and/or seek employment in architecture and landscape architecture offices.

### Student Learning Outcomes

Students who complete the Architecture Program will be able to:

- Develop critical thinking skills in a problem/project based curriculum that requires solving spatial, social, engineering and sustainable design problems developing personal, creative and individual solutions.
- Further enhance critical communication skills by articulating not only their solution to design problems, but also the process of arriving at these solutions, orally, graphically and visually to faculty, visiting critics, clients, and fellow students.
- Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects, role-playing and workplace scenarios.
- Increase their knowledge of global issues and awareness by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are international in scope, including issues of sustainability and environmental sensitivity.
- Expand their technological awareness through the use of state-of-the-art equipment and software consistent with our profession,

including computers, scanners, plotters, printers, copiers, digital projectors, and current editions of software utilized in the profession.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Performance: Architecture Technician\*

Courses:		Units
ARCH 105	Introduction to AutoCAD	2
ARCH 106	Advanced Computer Aided Drafting I	3
ARCH 111	Architectural Production Detailing	4
ARCH 200	Architectural Detailing	4
ARCH 250	Site Engineering	4
<b>Total Units = 17</b>		

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Performance: Architecture Transfer\*

Courses:		Units
ARCH 126	History of the Ancient World Architecture <b>or</b>	3
ARCH 127	History of World Architecture: Romanesque through Contemporary <b>and</b>	3
ARCH 170	Architectural Design	4
ARCH 172	Architectural Design II	4
ARCH 220	Graphic Design Communication I	2
ARCH 226	Architectural Theory	3
<b>Total Units = 12-16</b>		

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Performance: Computer Aided Drafting\*

Courses:		Units
ARCH 101	Introduction to ArchiCAD	3
ARCH 105	Introduction to AutoCAD	2
ARCH 106	Advanced Computer Aided Drafting I	3
ARCH 107	Introduction to Revit	3
<b>Total Units = 11</b>		

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Performance: Garden Design\*

Courses:		Units
ARCH 135	Tree Identification	3
ARCH 155	Environmental Design I: Creating Exterior Spaces	5
ARCH 136	Shrubs, Vines, Groundcover Identification	3
ARCH 235	Plants and Design	5
<b>Total Units = 16</b>		

#### Semester Sequence Units

##### Fall

ARCH 135	Tree Identification	3
ARCH 155	Environmental Design I: Creating Exterior Spaces	5

##### Spring

ARCH 136	Shrubs, Vines, Groundcover Identification	3
ARCH 235	Plants and Design	5

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Performance: Landscape Architecture Technician\*

Courses:		Units
ARCH 105	Introduction to AutoCAD	2
ARCH 106	Advanced Computer Aided Drafting I	3
ARCH 235	Plants and Design	5
ARCH 250	Site Engineering	4
<b>Total Units = 14</b>		

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Achievement: Architecture

#### Architecture Survey

Courses Required for the Major:		Units
ARCH 100	Architectural Drafting	2
ARCH 101	Introduction to ArchiCAD	3
ARCH 105	Introduction to AutoCAD	2
ARCH 111	Architectural Production Detailing	4
ARCH 126	History of Ancient World Architecture	
<b>or</b>		
ARCH 127	History of World Architecture: Romanesque through Contemporary	3
ARCH 130	Materials of Construction	3
ARCH 135	Tree Identification	3
ARCH 170	Architectural Design	4
ARCH 190	Environmental Design II: Urban and Community Design	5
ARCH 220	Graphic Design Communication I	2
<b>Total Units = 31</b>		

### Certificate of Achievement: Architecture

#### Architecture Technician

Courses Required for the Major:		Units
ARCH 100	Architectural Drafting	2
ARCH 105	Introduction to AutoCAD	2
ARCH 106	Advanced Computer Aided Drafting I	3
ARCH 111	Architectural Production Detailing	4
ARCH 126	History of Ancient World Architecture	
<b>or</b>		
ARCH 127	History of World Architecture: Romanesque through Contemporary	3
ARCH 130	Materials of Construction	3
ARCH 200	Architectural Detailing	4
ARCH 205	Estimating	3
ARCH 250	Site Engineering	4
<b>Total Units = 28</b>		

### Certificate of Achievement: Architecture

#### Architecture Transfer

Courses Required for the Major:		Units
ARCH 100	Architectural Drafting	2
ARCH 101	Introduction to ArchiCAD	3
ARCH 105	Introduction to AutoCAD	2
ARCH 126	History of Ancient World Architecture	
<b>or</b>		

ARCH 127	History of World Architecture: Romanesque through Contemporary	3
ARCH 170	Architectural Design	4
ARCH 172	Architectural Design II	4
ARCH 175	Advanced Architectural Design I	5
ARCH 180	Advanced Architectural Design II	5
ARCH 220	Graphic Design Communication I	2
ARCH 221	Graphic Design Communication II	2
ARCH 226	Architectural Theory	3

**Total Units = 35**

## Certificate of Achievement: Architecture

### Construction Management

Courses Required for the Major:		Units
ARCH 100	Architectural Drafting	2
ARCH 105	Introduction to AutoCAD	2
ARCH 111	Architectural Production Detailing	4
ARCH 130	Materials of Construction	3
ARCH 205	Estimating	3
BLDC 250	Construction Trades Management I	3
BLDC 255	Construction Trades Management II	3
BLDC 260	Building Codes and Zoning	3
BLDC 268	Electrical, Plumbing, and Mechanical Codes	3
BLDC 295	Building Contractor's License Law	3

**Total Units = 29**

## Certificate of Achievement: Architecture

### Landscape Architecture Technician

Courses Required for the Major:		Units
ARCH 100	Architectural Drafting	2
ARCH 105	Introduction to AutoCAD	2
ARCH 135	Tree Identification	3
ARCH 136	Shrubs, Vines, Groundcover Identification	3
ARCH 155	Environmental Design I: Creating Exterior Spaces	5
ARCH 190	Environmental Design II: Urban and Community Design	5
ARCH 220	Graphic Design Communication I	2
ARCH 235	Plants and Design	5
ARCH 250	Site Engineering	4

**Total Units = 31**

## Certificate of Achievement: Architecture

### Landscape Architecture Transfer

Courses Required for the Major:		Units
ARCH 100	Architectural Drafting	2
ARCH 135	Tree Identification	3
ARCH 136	Shrubs, Vines, Groundcover Identification	3
ARCH 155	Environmental Design I: Creating Exterior Spaces	5
ARCH 190	Environmental Design II: Urban and Community Design	5
ARCH 220	Graphic Design Communication I	2
ARCH 221	Graphic Design Communication II	2
ARCH 230	Sustainability in the Built Environment	5

**Total Units = 27**

## Certificate of Achievement: Architecture

### Woodbury University Transfer Track

Courses Required for the Major:		Units
ARCH 101	Introduction to ArchiCAD	3
ARCH 126	History of Ancient World Architecture	3
ARCH 127	History of World Architecture: Romanesque through Contemporary	3
ARCH 130	Materials of Construction	3
ARCH 170	Architectural Design	4
ARCH 172	Architectural Design II	4
ARCH 175	Advanced Architectural Design I	5
ARCH 180	Advanced Architectural Design II	5
ARCH 220	Graphic Design Communication I	2
ARCH 226	Architectural Theory	3

**Total Units = 35**

## Associate in Science Degree: Architecture

### Architecture Survey

Courses Required for the Major:		Units
ARCH 100	Architectural Drafting	2
ARCH 101	Introduction to ArchiCAD	3
ARCH 105	Introduction to AutoCAD	2
ARCH 111	Architecture Production Detailing	4
ARCH 126	History of Ancient World Architecture	3
<b>or</b>		
ARCH 127	History of World Architecture: Romanesque through Contemporary	3

ARCH 130	Materials of Construction	3
ARCH 135	Tree Identification	3
ARCH 170	Architectural Design	4
ARCH 190	Environmental Design II: Urban and Community Design	5
ARCH 220	Graphic Design Communication I	2

**Total Units = 31**

**Recommended Electives:** Art-Fine Art 155A, Architecture 101, 155, 270, 296, Mathematics 104, Physics 125.

**Note:** Other recommended electives: Physics courses numbered 125 or higher, and Mathematics courses numbered 104 or higher.

## Associate in Science Degree: Architecture

### Architecture Technician

<b>Courses Required for the Major:</b>	<b>Units</b>	
ARCH 100	Architectural Drafting	2
ARCH 105	Introduction to AutoCAD	2
ARCH 106	Advanced Computer Aided Drafting I	3
ARCH 111	Architectural Production Detailing	4
ARCH 126	History of Ancient World Architecture	
<b>or</b>		
ARCH 127	History of World Architecture: Romanesque through Contemporary	3
ARCH 130	Materials of Construction	3
ARCH 200	Architectural Detailing	4
ARCH 205	Estimating	3
ARCH 250	Site Engineering	4

**Total Units = 28**

**Recommended Electives:** Art-Fine Art 155A, Architecture 101, 155, 190, 270, 290, 296, Mathematics 104, Physics 125.

## Associate in Science Degree: Architecture

### Architecture Transfer

<b>Courses Required for the Major:</b>	<b>Units</b>	
ARCH 100	Architectural Drafting	2
ARCH 101	Introduction to ArchiCAD	3
ARCH 105	Introduction to AutoCAD	2
ARCH 126	History of Ancient World Architecture	
<b>or</b>		
ARCH 127	History of World Architecture: Romanesque through Contemporary	3
ARCH 170	Architectural Design	4
ARCH 172	Architectural Design II	4

ARCH 175	Advanced Architectural Design I	5
ARCH 180	Advanced Architectural Design II	5
ARCH 220	Graphic Design Communication I	2
ARCH 221	Graphic Design Communication II	2
ARCH 226	Architectural Theory	3

**Total Units = 35**

**Recommended Electives:** Art-Fine Art 155A, Architecture 101, 155, 190, 270, 290, 296, Mathematics 104, Physics 125.

**Other recommended electives:** Physics courses numbered 125 or higher, and Mathematics courses numbered 104 or higher.

## Associate in Science Degree: Architecture

### Construction Management

<b>Courses Required for the Major:</b>	<b>Units</b>	
ARCH 100	Architectural Drafting	2
ARCH 105	Introduction to AutoCAD	2
ARCH 111	Architectural Production Detailing	4
ARCH 130	Materials of Construction	3
ARCH 205	Estimating	3
BLDC 250	Construction Trades Management I	3
BLDC 255	Construction Trades Management II	3
BLDC 260	Building Codes and Zoning	3
BLDC 268	Electrical, Plumbing, & Mechanical Codes	3
BLDC 295	Building Contractor's License Law	3

**Total Units = 29**

## Associate in Science Degree: Architecture

### Landscape Architecture Technician

The Associate Degree in Landscape Architecture Technician counts as one educational unit in qualifying to sit for the California State Landscape Architecture licensing exam.

<b>Courses Required for the Major:</b>	<b>Units</b>	
ARCH 100	Architectural Drafting	2
ARCH 105	Introduction to AutoCAD	2
ARCH 135	Tree Identification	3
ARCH 136	Shrubs, Vines, Groundcover Identification	3
ARCH 155	Environmental Design I: Creating Exterior Spaces	5
ARCH 190	Environmental Design II: Urban and Community Design	5

ARCH 220	Graphic Design Communication I	2
ARCH 235	Plants and Design	5
ARCH 250	Site Engineering	4

**Total Units = 31**

**Recommended Electives:** Fine Arts 150A, 155A, Architecture 126, 127, 221, 230, Biology 100, 120, 255.

## Associate in Science Degree: Architecture

### Landscape Architecture Transfer

Courses Required for the Major:		Units
ARCH 100	Architectural Drafting	2
ARCH 135	Tree Identification	3
ARCH 136	Shrubs, Vines, Groundcover Identification	3
ARCH 155	Environmental Design I: Creating Exterior Spaces	5
ARCH 190	Environmental Design II: Urban and Community Design	5
ARCH 220	Graphic Design Communication I	2
ARCH 221	Graphic Design Communication II	2
ARCH 230	Sustainability in the Built Environment	5

**Total Units = 27**

**Recommended Electives:** Fine Arts 150A, 155A; Architecture 126, 127, 221; Biology 100, 120, 255.

## Associate in Science Degree: Architecture

### Woodbury University Transfer Track

Courses Required for the Major:		Units
ARCH 101	Introduction to ArchiCAD	3
ARCH 126	History of Ancient World Architecture	3
ARCH 127	History of World Architecture: Romanesque through Contemporary	3
ARCH 130	Materials of Construction	3
ARCH 170	Architectural Design	4
ARCH 172	Architectural Design II	4
ARCH 175	Advanced Architectural Design I	5
ARCH 180	Advanced Architectural Design II	5
ARCH 220	Graphic Design Communication I	2
ARCH 226	Architectural Theory	3

**Total Units = 35**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor**

## Art-Fine Art

Award Type	Units
<b>Certificate of Performance:</b>	
Fine Art	15
Museum Studies	10
<b>Associate in Arts Degree:</b>	
Art History Emphasis	36*
Ceramics Emphasis	36*
Digital Art Emphasis	34-35*
Museum Studies Emphasis	35*
Three-Dimensional Emphasis	34*
Two-Dimensional Emphasis	34*
Photography and New Genres Emphasis	37*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

The Fine Arts program aims to develop student understanding of current and historical art practices and theoretical issues. The program investigates new media and technologies as it builds upon foundational skills. It strives to provide a challenging learning environment of research, originality and experimentation through student engagement and interaction. The major consists of six core courses, plus additional courses that define an "area of emphasis."

## Program Goals

The Fine Arts program provides students with a foundation for the study of the visual arts and their contribution to history and culture. Idea centered, the program serves as a model for the department's approach to fine art from cultural, social, economic and political contexts.

## Program Emphasis

The Fine Arts program emphasizes critical thinking and perceptual awareness to enable students to develop their artistic skills. There are seven areas of emphasis in the Fine Art major: Two Dimensional, Three Dimensional, Digital, Art History, Ceramics, Museum Studies and Photography.

## Career Options

Students may obtain an Associate of Arts degree, complete preparation for the major in fine art and/or transfer to a four-year institution. Career options may include art practice, gallery management and curatorial practice.

## Student Learning Outcomes

Students who complete the Art-Fine Art Program will gain facility with:

### Global Awareness:

- Students will develop the ability to expand the vision of the role of art in the greater culture.
- Students will develop an awareness of cultural diversity (and its use/effect on art-making).

### Historical Awareness:

- Students will develop the ability to engage visual art as defined in a progression of change.

### Critical Thinking:

- Students will develop the ability to affect critical thinking in visual terms.

### Visual Literacy:

- Students will develop the ability to employ art concepts and terminology effectively.
- Students will develop the ability to understand the creative process of art-making.

### Technological Awareness

- Students will develop the ability to understand materials, methods and techniques both

historical and contemporary and the contexts in which they are employed.

- Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Performance: Fine Art\*

The Certificate of Performance in Fine Art certifies that the student has completed the core course work in Fine Art and has demonstrated an operational understanding of critical visual skills.

<b>Courses:</b>	<b>Units</b>
ARTF 110 Art History: Prehistoric to Gothic or	
ARTF 111 Art History: Renaissance to Modern	3
ARTF 150A Two-Dimensional Design	3
ARTF 150B Beginning Graphic Design	3
ARTF 151 Three-Dimensional Design	3
ARTF 155A Freehand Drawing I	3
<b>Total Units = 15</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Performance: Museum Studies\*

The Certificate of Performance in Museum Studies certifies that a student has completed all our museum studies courses, including an off-campus internship at a gallery or museum.

<b>Courses:</b>	<b>Units</b>
ARTF 161A Museum Studies/Gallery Exhibition Skills I	3
ARTF 161B Museum Studies/Gallery Exhibition Skills II	3
ARTF 163 Art Museum/Gallery Internship	4
<b>Total Units = 10</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Associate in Arts Degree: Art - Fine Art

### Art History Emphasis

The Art History emphasis focuses on the development of a core foundation of a global history of art. Students will be able to apply and expand these understandings to specific problems of media and context. Successful completion of the courses indicates that a student has achieved an operational understanding of certain essential visual skills and an awareness of cultural and historical factors that manifest various types of visual media.

<b>Courses Required for the Major:</b>		<b>Units</b>
ARTF 107	Contemporary Art	3
ARTF 109	History of Modern Art	3
ARTF 110	Art History: Prehistoric to Gothic	3
ARTF 111	Art History: Renaissance to Modern	3
ARTF 113	Arts of Africa, Oceania, and the Americas	3
ARTF 125	Art History: Arts of the Asian Continent	3
ARTF 150A	Two-Dimensional Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 150B	Beginning Graphic Design <b>or</b>	
ARTF 155A	Freehand Drawing I	3
<b>Select three courses from:</b>		
ARTF 115	African Art	3
ARTF 120	Native American Art	3
ARTF 161A	Museum Studies/Gallery Exhibition Skills I	3
ARTF 165A	Composition in Painting I	3
ARTF 175A	Sculpture I	3
ARTF 191	Cultural Influences on Photography	3
ARTF 194	Critical Photography	3
ARTF 195A	Ceramics I	3
ARTF 210A	Life Drawing I	3
ARTF 231	Introduction to Digital Art	3
BLAS 110	African American Art	3
CHIC 230	Chicano Art	3
<b>Total Units = 36</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended electives:** Fine Art 174A, 190A, 198A, 220A.

**Note:** Only one Fine Arts (ARTF) course from the above list may be used to satisfy SDCCD general education requirements.

## Associate in Arts Degree: Art - Fine Art

### Ceramics Emphasis

The Ceramics area of emphasis focuses on the expansion of artistic practice through exploration, experimentation, studio work and study. Students are encouraged to integrate traditional, contemporary and alternative materials and processes as they express themselves through skill development, critical thinking and artistic discourse relevant to the ceramics medium.

<b>Courses Required for the Major:</b>		<b>Units</b>
ARTF 107	Contemporary Art	3
ARTF 109	History of Modern Art <b>or</b>	
ARTF 110	Art History: Prehistoric to Gothic <b>or</b>	
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 150B	Beginning Graphic Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3

### Complete the Requirements for the Ceramics Emphasis:

ARTF 195A	Ceramics I	3
ARTF 195B	Ceramics II	3
ARTF 197A	Handbuilding Ceramics I	3

### Select two courses from the following:

ARTF 175A	Sculpture I	3
ARTF 197B	Handbuilding Ceramics II	3
ARTF 220A	Life Sculpture I	3
ARTF 196	Clay and Glaze Technology	3

### Select one course from the following:

ARTF 113	Arts of Africa, Oceania, and the Americas	3
ARTF 115	African Art	3
ARTF 120	Native American Art	3
ARTF 125	Art History: Arts of the Asian Continent	3
BLAS 110	African American Art	3
CHIC 230	Chicano Art	3
<b>Total Units = 36</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended electives:** Fine Art 165A, 175A, 175B, 175C, 194, 190A, 198A, 260, 280C.

**Note:** Only one Fine Art (ARTF) course from the above list may be used to satisfy SDCCD general education requirements.

## Associate in Arts Degree: Art - Fine Art

### Digital Art Emphasis

<b>Courses Required for the Major:</b>		<b>Units</b>
ARTF 110	Art History: Prehistoric to Gothic	3
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 150B	Beginning Graphic Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3

### Complete the Requirements for Emphasis in Digital Art:

MULT 101	Introduction to Multimedia	4
ARTF 231	Introduction to Digital Art	3
ARTF 232	Introduction to Digital Drawing and Painting	3
ARTF 233	Introduction to Digital Photographic Imaging	3

### Select one course from the following:

ARTF 165A	Composition in Painting I	3
ARTF 210A	Life Drawing I	3
ARTF 190A	Black and White Art Photography	3
ARTF 174A	Book Arts I	3
ARTF 198A	Introduction to Printmaking I	3
MULT 112	Beginning Flash	4
MULT 123	Digital Video	3

**Total Units = 34-35**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

### Electives as needed to meet minimum of 60 units required for the degree:

**Note:** Only one Fine Art (ARTF) course from the above list may be used to satisfy SDCCD general education requirements.

## Associate in Arts Degree: Art - Fine Art

### Museum Studies Emphasis

The Museum Studies area of emphasis focuses on theoretical and hands-on instruction in curatorial

practice. Students participate in the workings of the college gallery through the development of supplemental materials and the creation and installation of exhibits. Completion of an internship at a local museum or art venue teaches students to apply their curatorial skills within a professional arts setting.

<b>Courses Required for the Major:</b>		<b>Units</b>
ARTF 107	Contemporary Art	3
ARTF 109	History of Modern Art <b>or</b>	
ARTF 110	Art History: Prehistoric to Gothic <b>or</b>	
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 150B	Beginning Graphic Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3

### Complete the requirements for the Museum Studies emphasis:

ARTF 152	Color Theory <b>or</b>	
ARTF 231	Introduction to Digital Art	3
ARTF 161A	Museum Studies/Gallery Exhibition Skills I	3
ARTF 161B	Museum Studies/Gallery Exhibition Skills II	3
ARTF 163	Art Museum/Gallery Internship	4
ARTF 280E	Museum Studies Lab	1

### Select one course from:

ARTF 113	Arts of Africa, Oceania, and the Americas	3
ARTF 115	African Art	3
ARTF 120	Native American Art	3
ARTF 125	Art History: Arts of the Asian Continent	3
BLAS 110	African American Art	3
CHIC 230	Chicano Art	3

**Total Units = 35**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

### Electives as needed to meet minimum of 60 units required for the degree:

**Recommended electives:** Fine Art 152, 191, 194, 198A, 233, Multimedia 101.

**Note:** Only one Fine Art (ARTF) course from the above list may be used to satisfy SDCCD general education requirements.



## Associate in Arts Degree: Art - Fine Art

### Three-Dimensional Emphasis

The Three Dimensional area of emphasis focuses on the development of sustained artistic practice through exploration, experimentation, studio work and study. Students are encouraged to examine and explore all the creative possibilities offered by three dimensional art forms as well as where their work fits into the history of art and contemporary art practice.

#### Complete the Art Major Core Course Requirements:

<b>Courses Required for the Major:</b>		<b>Units</b>
ARTF 107	Contemporary Art	3
ARTF 109	History of Modern Art <b>or</b>	
ARTF 110	Art History: Prehistoric to Gothic <b>or</b>	
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 150B	Beginning Graphic Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3

#### Courses Required for the Three-Dimensional emphasis:

ARTF 175A	Sculpture I	3
ARTF 175B	Sculpture II	3
ARTF 195A	Ceramics I	3
ARTF 280B	3-Dimensional Studio Lab	1

#### Select one course from:

ARTF 113	Arts of Africa, Oceania, and the Americas	3
ARTF 115	African Art	3
ARTF 120	Native American Art	3
ARTF 125	Art History: Arts of the Asian Continent	3
BLAS 110	African American Art	3
CHIC 230	Chicano Art	3

#### Select one course from:

ARTF 165A	Composition in Painting I	3
ARTF 190A	Black and White Art Photography	3
ARTF 191	Cultural Influences on Photography	3
ARTF 194	Critical Photography	3
ARTF 198A	Introduction to Printmaking I	3
ARTF 210A	Life Drawing I	3
ARTF 220A	Life Sculpture I	3
ARTF 231	Introduction to Digital Art	3

**Total Units = 34**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

#### Electives as needed to meet minimum of 60 units required for the degree:

**Recommended electives:** Fine Art 155B, 161A, 165B, 165C, 198B, 210B, 220B.

**Note:** Only one Fine Art (ARTF) course from the above list may be used to satisfy SDCCD general education requirements.

## Associate in Arts Degree: Art - Fine Art

### Two-Dimensional Emphasis

The Two Dimensional area of emphasis focuses on the development of sustained artistic practice through exploration, experimentation, studio work and study. As students develop ideas and express them in a variety of two-dimensional forms, they are prompted to examine how their artwork reflects the time and culture within which they are creating it and how their work fits into the history of art and contemporary art practice.

#### Complete the Art Major Core Course Requirements:

<b>Courses Required for the Major:</b>		<b>Units</b>
ARTF 107	Contemporary Art	3
ARTF 109	History of Modern Art <b>or</b>	
ARTF 110	Art History: Prehistoric to Gothic <b>or</b>	
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 150B	Beginning Graphic Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3

#### Complete the requirements for the Two-Dimensional Emphasis:

ARTF 165A	Composition in Painting I	3
ARTF 210A	Life Drawing I	3
ARTF 280A	2-Dimensional Art Studio Lab <b>or</b>	
ARTF 280F	Photography Studio Lab	1

#### Select two courses from:

ARTF 155B	Freehand Drawing II	3
ARTF 165B	Composition in Painting II	3
ARTF 165C	Composition in Painting III	3
ARTF 191	Cultural Influences on Photography	3
ARTF 194	Critical Photography	3
ARTF 198A	Introduction to Printmaking I	3
ARTF 232	Introduction to Digital Drawing and Painting	3

**Select one course from:**

ARTF 113	Arts of Africa, Oceania, and the Americas	3
ARTF 115	African Art	3
ARTF 120	Native American Art	3
ARTF 125	Art History: Arts of the Asian Continent	3
BLAS 110	African American Art	3
CHIC 230	Chicano Art	3

**Total Units = 34**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended electives:** Art-Fine Art 152, 161A, 190A, 198B.

**Note:** Only one Fine Art (ARTF) course from the above list may be used to satisfy SDCCD general education requirement.

**Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

**Associate in Arts Degree:  
Art - Fine Art****Photography and New Genres Emphasis**

The Photography/New Genres area of emphasis focuses on developing student understanding of photographic art practice and theory and the value of its contribution to cultural development and change. The program equips students to expand as artists in ways that are meaningful in the social context in which they live and work. Critical thinking and perceptual awareness are emphasized, throughout, and enable the student to broaden their

artistic skills through observation, translation and invention of images.

The Associate Arts Degree in Fine Art with an emphasis in Photography/New Genres certifies that a student has explored a particular interest in art in an orderly manner and has produced a range of work indicative of a thorough understanding of the visual arts as a discipline. Award of the Photography/New Genres Area of Emphasis prepares the student for successful completion of requirements for a baccalaureate degree in Art, Fine Art Photography, Design/Media, Film Studies and Television, Digital Media, Museum Administration and Curation.

**Courses Required for the Major:**

	Units	
ARTF 107	Contemporary Art	3
ARTF 109	History of Modern Art <b>or</b>	
ARTF 110	Art History: Prehistoric to Gothic <b>or</b>	
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 150B	Beginning Graphic Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3

**Complete the requirements for the Photography Emphasis:**

ARTF 190A	Black and White Art Photography	3
ARTF 191	Cultural Influences on Photography	3
ARTF 194	Critical Photography	3
ARTF 200	Photographic Composition and Theory	3
ARTF 233	Introduction to Digital Photographic Imaging	3
ARTF 280F	Photography Studio Lab	1

**Select one course from:**

ARTF 113	Arts of Africa, Oceania, and the Americas	3
ARTF 120	Native American Art	3
ARTF 125	Art History: Arts of the Asian Continent	3
BLAS 110	African American Art	3
CHIC 230	Chicano Art	3
ARTF 115	African Art	3

**Total Units = 37**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended electives:** Art-Fine Art 231, 232.

**Note:** Only one Fine Art (ARTF) course from the above list may be used to satisfy SDCCD general education requirements.

## Asian Studies

Courses relating to Asian cultures and civilizations are offered through an interdisciplinary approach in the following areas:

### English

Introduction to Asian Literature

### History

Introduction to Asian Civilizations  
Asian Civilizations in Modern Times

### Humanities

World Music

### Language Arts

Chinese, Japanese, Tagalog, Vietnamese

### Music

World Music

### Philosophy

Oriental Philosophy

## Asian Pacific American Studies

Courses relating to Asian Pacific American Studies are offered through an interdisciplinary approach in the following areas:

### Filipino Studies

Filipino Studies

### History

U. S. History from the Asian Pacific American Perspective

# Biology

Award Type	Units
<b>Certificate of Performance:</b>	
Applied Biotechnology	8
<b>Associate in Science Degree:</b>	
Transfer Track	23-24*
Applied Biology Track	31*
Allied Health Track	21*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

Biology is a natural science that focuses on physical and chemical processes of living organisms. This

discipline explores how organisms acquire and use energy to maintain homeostasis, how they reproduce, and how they interact with each other and their environment. Scientific processes are emphasized as a means of answering these biological questions. Biologists rely heavily on a chemistry foundation since living organisms are chemical systems.

The Biology program serves three areas of study. Biology provides a broad background of studies for the biology major preparing for transfer to a four-year institution. The biology program offers support courses in human anatomy, human physiology, and general microbiology which may be used to satisfy prerequisites for nursing programs and other allied health fields. The biology program provides courses in natural science to fulfill general education requirements.

The following list is a sample of the many career options available for the biology major. A few of these require an associate degree; most require a baccalaureate degree and some require a graduate level degree: agricultural consultant, animal health technician, biotechnology technician, dentist, environmental consultant, field biologist, forester, horticulturist, high school or college teacher, marine biologist, microbiologist, public health technician, physician, pharmaceutical researcher, research biologist, and veterinarian. In addition, a background in biology may be required for the following: registered nurse, physical therapist, respiratory therapist, dental assistant, health information technician, medical technician, physician's assistant and optometrist.

The three associate degrees in biology require completion of the courses listed below. Additional general education and graduation requirements for the associate degree are listed in the catalog. The Associate Degree requires a minimum of 60 units.

## Student Learning Outcomes

Students who complete the Biology Program will be able to:

- Think critically, developing the skills to ask vital questions and solve biological problems by applying the Scientific Method.
- Communicate, using examples, the importance of interconnections among living organisms and their environments.

- Transfer knowledge of biological concepts to achieve successful academic progress in 200 level biology courses and into applications for everyday life. These concepts could include cell theory, evolutionary mechanisms, and major life processes.
- Investigate biological questions using modern and appropriate tools.
- Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Performance: Applied Biotechnology\*

Students may take the specific biotechnology courses and receive a Certificate of Performance authorized and issued by the academic department. It is not intended to nor will it be recognized as an official state approved program. It is intended to provide students with intensive laboratory skills development experience to meet entry-level employment requirements in the biotechnology industry.

Courses:	Units
BIOL 132 Applied Biotechnology I (Miramar)	4
BIOL 133 Applied Biotechnology II (Miramar)	4
<b>Total Units = 8</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Associate in Science Degree: Biology

#### Transfer Track

Courses Required for the Major:	Units
BIOL 210A Introduction to the Biological Sciences I	4
BIOL 210B Introduction to the Biological Sciences II	4
CHEM 200 General Chemistry I Lecture <b>and</b>	
CHEM 200L General Chemistry I Lab	5
CHEM 201 General Chemistry II Lecture <b>and</b>	
CHEM 201L General Chemistry II Lab	5
MATH 121 Basic Techniques of Applied Calculus I <b>and</b>	
MATH 122 Basic Techniques of Calculus II <b>or</b>	

MATH 150 Calculus with Analytic Geometry I	5-6
<b>Total Units = 23-24</b>	

**Note:** Only one Biology (BIOL) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Biology 100, 101 (City), 110, 115, 120 (Mesa, Miramar), 130 (Mesa), 180, 200, 205, 215, 230, 235, 250, 290, 296.

### Associate in Science Degree: Biology

#### Applied Biology Track

Courses Required for the Major:	Units
BIOL 107 General Biology - Lecture/Lab	4
BIOL 205 General Microbiology	5
BIOL 132 Applied Biotechnology I <b>and</b>	
BIOL 133 Applied Biotechnology II (Miramar)	8
CHEM 200 General Chemistry I Lecture <b>and</b>	
CHEM 200L General Chemistry I Lab	5
CHEM 201 General Chemistry II Lecture <b>and</b>	
CHEM 201L General Chemistry II Lab	5
CISC 181 Principles of Information Systems	4
<b>Total Units = 31</b>	

**Note:** Only one Biology (BIOL) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Biology 100; Physics 181A (City), 181B (City), 180A (City), 180B (City).

### Associate in Science Degree: Biology

#### Allied Health Track

Consult the Nursing Education faculty (City College) or a counselor to verify current course requirements for associate degree and baccalaureate nursing program preparation.

<b>Courses Required for the Major:</b>		<b>Units</b>
BIOL 107	General Biology - Lecture/Lab	4
BIOL 205	General Microbiology	5
BIOL 230	Human Anatomy	4
BIOL 235	Human Physiology	4
CHEM 100	Fundamentals of Chemistry	3
CHEM 100L	Fundamentals of Chemistry Lab	1
<b>Total Units = 21</b>		

**Note:** Only one Biology (BIOL) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Biology 100, 101 (City), 115, 120 (Mesa, Miramar), 130 (Mesa), 180, 215, 250; Chemistry 130, 130L.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Black Studies

<b>Award Type</b>	<b>Units</b>
<b>Associate in Arts Degree:</b>	
Black Studies	27*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

Black Studies is a multidisciplinary curriculum offering courses in American Institutions, Humanities, Social Sciences, and Learning Skills.

The program builds a positive understanding and knowledge of the history, culture, and contributions of Africans and Afro-Americans. All students benefit from courses in Black Studies, especially those who pursue careers in social sciences, education, law, counseling, journalism, social work, health care professions, teaching, business, and public administration.

### Student Learning Outcomes

The Black Studies Department is built upon an interdisciplinary curriculum (i.e. History, Psychology, Sociology, English, Literature, Political Science, Speech Art, Music, etc.). Students who successfully complete the Black Studies Program will gain facility with:

- **Critical Thinking:** The Black Studies curriculum is designed to develop and challenge cognitive and creative thinking skills by incorporating oral, written, and creative assignments that enhance students' research, analytical and critical thinking skills.
- **Self-Awareness and Interpersonal Skills:** Students will learn to be self defined and develop the ability to see themselves in others by participating in group assignments, open discussions and experiential activities. Students will learn to analyze their own actions, understand and respect the perspectives of others, while working effectively with people in groups.
- **Communication:** Students will develop the confidence and ability to express themselves in an oral, written, and creative manner. By participating in a variety of learning opportunities (lectures, seminars, field trips, performances, etc.) students enhance and expand their ability to articulate critical thinking which is applicable to all learning experiences.
- **Personal Actions and Civic Responsibility:** Students will develop a personal sense of responsibility through an understanding of how they are connected to their community and society at large. By participating in service learning activities and volunteerism students will develop community consciousness and commitment.
- **Technological Awareness:** Students are given opportunities to enhance their understanding

of technology through required assignments, projects, and presentation.

- **Global Awareness:** Students will learn to analyze content and context of cultures around the world by comparing and contrasting how people do the same things in different ways. This will enable them to take responsibility for their actions and make ethical decisions with an understanding of its impact globally.
- **Life Mastery Skills:** Students will develop consciousness, confidence, and competence through the interdisciplinary structure of Black Studies. Students develop a practical application of critical thinking, self awareness, communication, personal actions, civic responsibility, global and technology awareness. As a result, students know and understand that they have the power and ability to make decisions that make a difference on a personal, professional and global level.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Black Studies

Courses Required for the Major:		Units
BLAS 100	Introduction to Black Studies	3
BLAS 104	Black Psychology <b>or</b>	
BLAS 130	The Black Family	3
BLAS 115	Sociology/Black Perspective (City) <b>or</b>	
BLAS 116	Contemporary Social Problems from a Black Perspective <b>or</b>	
BLAS 135	Introduction to Black Politics (City)	3
BLAS 110	African American Art <b>or</b>	
BLAS 120	Black Music	3
BLAS 125	Dynamics of the Black Community	3
BLAS 140A	History of the U.S., Black Perspective	3
BLAS 150	Black Women in Literature & the Media <b>or</b>	
BLAS 155	Afro-American Literature	3

### Select six units from the following:

BLAS 111	African Art History	3
BLAS 140B	History Of The U.S., Black Perspective	3
BLAS 145A	Introduction to African History	3
BLAS 145B	Introduction to African History	3
BLAS 165	Sexuality and Black Culture	3
BLAS 175	Psycho-History of Racism and Sexism	3
COMS 103	Oral Communication	3
ENGL 101	Reading and Composition	3

ENGL 105 Composition and Literature 3

**Total Units = 27**

**Note:** Only one Black Studies (BLAS) course from the above list may be used to satisfy SDCCD general education requirements. BLAS 115 & 135 offered at City College only.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Black Studies 106, 290, 296; Business 140; Chicano Studies 201, 210; Economics 120, 121; English 49; Geography 102; History 109, 110; Mathematics 96 or higher; Philosophy 102A; Political Science 103; Psychology 135, 270.

**Other recommended electives:** Any mathematics course number 96 or higher.

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Building Construction Technology

Award Type	Units
<b>Certificate of Achievement:</b> Inspection	28
<b>Associate in Science Degree:</b> Inspection	28*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

## Description

This program is designed for the student who is interested in a construction-related career. This program is designed for the student who is interested in a Construction Inspection or Construction Management career. Program planning should occur with the assistance of a department member. All courses have been designed to be taken sequentially.

## Student Learning Outcomes

Students who complete the Building Construction Technology Program will be able to:

- Review a typical set of residential or light commercial construction plans and analyze, interpret, extract and define basic structural and finish components and/or systems necessary for project construction.
- Analyze and compute "Early Start" and "Late Start" and "Early Finish" and "Late Finish" times and "Total Float" associated with a basic network diagram for a construction project utilizing "Activity on the Node" (AON) when sequencing and activity time durations are defined.
- Locate, identify, and correctly apply building code constraints to a specific design or construction problem.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: Building Construction Technology

### Inspection

Courses Required for the Major:		Units
BLDC 120	Blueprint Reading	3
BLDC 130	Construction Practices I	4
BLDC 245	Building Inspection	3
BLDC 250	Construction Trades Management I	3
BLDC 255	Construction Trades Management II	3
BLDC 260	Building Codes and Zoning	3
BLDC 268	Electrical, Plumbing, and Mechanical Codes	3
ARCH 130	Materials of Construction	3
ARCH 205	Estimating	3
<b>Total Units</b>		<b>28</b>

## Associate in Science Degree: Building Construction Technology

### Inspection

Courses Required for the Major:		Units
BLDC 120	Blueprint Reading	3
BLDC 130	Construction Practices I	4
BLDC 245	Building Inspection	3
BLDC 250	Construction Trades Management I	3
BLDC 255	Construction Trades Management II	3
BLDC 260	Building Codes and Zoning	3
BLDC 268	Electrical, Plumbing, and Mechanical Codes	3
ARCH 130	Materials of Construction	3
ARCH 205	Estimating	3
<b>Total Units =</b>		<b>28</b>

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Building Construction Technology 290.

## Construction Management

See "Architecture" on page 136.

# Business Administration

Award Type	Units
<b>Certificate of Achievement:</b> Business Administration	30
<b>Associate in Science Degree:</b> Business Administration	33*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

Prepares the student for transfer to a four-year college through maximum use of equivalent courses. It also provides a foundation for entry into business.

## Student Learning Outcomes

Students who complete the Business Administration Program will gain facility with:

- **Communication:** Students will be able to articulate and explain critical thinking outcomes in writing and speaking, as well as by other contemporary recognized modes of business communication.
- **Self-awareness and Interpersonal Skills:** Students will recognize and respect the business opinions and perspectives of others, and they will be able to work effectively with superiors, peers, and subordinates in organized group settings.
- **Personal Actions and Civic Responsibility:** Students will be able to analyze and accept responsibility for their own actions and make ethical decisions in the business environment.
- **Global Awareness:** Students will be able to identify and understand global business issues.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: Business Administration

Courses Required for the Major:	Units
BUSE 100 Introduction to Business (recommended as a first semester course), <b>or</b>	

MARK 100 Principles of Marketing	3
BUSE 119 Business Communications	3
BUSE 140 Business Law & the Legal Environment	3
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4
CISC 181 Principles of Information Systems	4
ECON 120 Principles of Macroeconomics	3
ECON 121 Principles of Microeconomics	3
MATH 119 Elementary Statistics	3
<b>Total Units = 30</b>	

## Associate in Science Degree: Business Administration

Courses Required for the Major:	Units
BUSE 100 Introduction to Business (recommended as a first semester course), <b>or</b>	
MARK 100 Principles of Marketing	3
BUSE 119 Business Communications	3
BUSE 140 Business Law & the Legal Environment	3
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4
CISC 181 Principles of Information Systems	4
ECON 120 Principles of Macroeconomics	3
ECON 121 Principles of Microeconomics	3
ENGL 101 Reading and Composition	3
MATH 119 Elementary Statistics	3
<b>Total Units = 33</b>	

**Note:** Only one Business (BUSE) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Business 101, 143, 270; Marketing 100. Electives should be chosen after consultation with a counselor and with reference to programs at a four-year institution to which the student will transfer.

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university



lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Business Management

Award Type	Units
<b>Certificate of Achievement:</b> Business Management	35
<b>Associate in Science Degree:</b> Business Management	47*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

Intended for the student who wishes to plan a program in preparation for a business occupational area of his/her own choice. Flexible course selection is emphasized to enable students to achieve their specific educational, vocational and personal goals. Students planning to transfer to a four-year college or university should select the Business Administration major.

### Student Learning Outcomes

Students who complete the Business Management Program will gain facility with:

- **Communication:** Students will be able to articulate and explain critical thinking outcomes in writing and speaking, as well as by other contemporary recognized modes of business communication.
- **Self-awareness and Interpersonal Skills:** Students will recognize and respect the business opinions and perspectives of others, and they will be able to work effectively with superiors, peers, and subordinates in organized group settings.

- **Personal Actions and Civic Responsibility:** Students will be able to analyze and accept responsibility for their own actions and make ethical decisions in the business environment.
- **Global Awareness:** Students will be able to identify and understand global business issues.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Achievement: Business Management

Courses Required for the Major:	Units
BUSE 100 Introduction to Business (recommended as a first semester course)	3
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications	3
BUSE 140 Business Law & the Legal Environment	3
ACCT 116A Financial Accounting	4
CISC 181 Principles of Information Systems	4
ECON 120 Principles of Macroeconomics	3
*Occupational Electives	12
<b>Total Units = 35</b>	

### Associate in Science Degree: Business Management

Courses Required for the Major:	Units
BUSE 100 Introduction to Business (recommended as a first semester course)	3
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications	3
BUSE 140 Business Law & the Legal Environment	3
BUSE 150 Human Relations in Business	3
BUSE 201 Business Organization and Management	3
ACCT 116A Financial Accounting	4
CISC 181 Principles of Information Systems	4
ECON 120 Principles of Macroeconomics	3
ECON 121 Principles of Microeconomics	3
MARK 100 Principles of Marketing	3
*Occupational Electives	12
<b>Total Units = 47</b>	

**Note:** Only one Business (BUSE) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Accounting 116B; Business 143, 155, 270; Computer Business Technology 180; Marketing 105.

\*These courses should be planned with the assistance of a counselor and must be approved by a department member. Approval forms may be obtained in the counseling office.

## Chemistry

Award Type	Units
<b>Certificate of Performance:</b>	
Preparation for Chemistry Lab. Positions	17
<b>Certificate of Achievement:</b>	
Chemistry	35
Chemistry Technician	28
<b>Associate in Science Degree:</b>	
Chemistry	35*
Chemistry Technician	42*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

Upon completion of the required pattern of Chemistry courses and other degree graduation requirements an Associate in Science Degree in Chemistry will be granted. A certificate program is also offered in Chemistry.

### Emphasis

The Chemistry Program permits the student to fulfill the lower division chemistry for transfer programs to four-year institutions as well as to acquire the necessary skills for employment in chemistry.

### Career Options

Careers in chemistry include "traditional" activities (e.g. analysis, synthesis), interdisciplinary fields (e.g. materials, biophysics), and related professions such as medicine, patent law, education, technical writing, art conservation, forensic science and many others.

## Student Learning Outcomes

Students who complete the Chemistry Program will gain facility with:

- **Communication:** Students will be able to demonstrate ability to report scientific information appropriately.
- **Critical Thinking:** Students will be able to utilize the scientific method to analyze and interpret data.
- **Technology awareness:** Students will be able to investigate questions utilizing modern and appropriate tools.
- **Personal responsibility:** Students will come prepared for class and complete assigned work thoughtfully.
- **Environmental responsibility:** Students will be able to explain or describe the impact of chemistry on environment.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Performance: Preparation for Chemistry Laboratory Positions\*

Courses:	Units
CHEM 200 General Chemistry I - Lecture	3
CHEM 200L General Chemistry I - Lab	2
CHEM 201 General Chemistry II - Lecture	3
CHEM 201L General Chemistry II - Lab	2
CHEM 231 Organic Chemistry I - Lecture	3
CHEM 231L Organic Chemistry I - Laboratory	2
CHEM 161 Techniques in Biochemistry	2

**Total Units = 17**

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Achievement: Chemistry

Courses Required for the Major:	Units
CHEM 200 General Chemistry I - Lecture	3
CHEM 200L General Chemistry I - Lab	2
CHEM 201 General Chemistry II - Lecture	3
CHEM 201L General Chemistry II - Lab	2
CHEM 231 Organic Chemistry I - Lecture	3

CHEM 231L	Organic Chemistry I - Laboratory	2
CHEM 251	Analytical Chemistry	5

**Plus fifteen units selected from the following:**

MATH 141	Precalculus	5
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4
PHYS 195	Mechanics	5
PHYS 196	Electricity & Magnetism	5
PHYS 197	Waves, Optics, & Modern Physics	5

**Total Units = 35**

## Certificate of Achievement: Chemistry Technician

Courses:	Units	
CHEM 200	General Chemistry I - Lecture	3
CHEM 200L	General Chemistry I - Lab	2
CHEM 201	General Chemistry II - Lecture	3
CHEM 201L	General Chemistry II - Lab	2
CHEM 231	Organic Chemistry I - Lecture	3
CHEM 231L	Organic Chemistry I - Laboratory	2
CHEM 233	Organic Chemistry II - Lecture	3
CHEM 233L	Organic Chemistry II - Laboratory	2
CHEM 255	Inside the Pharmaceutical Industry	3
CHEM 251	Analytical Chemistry <b>or</b>	
CHEM 160	Introduction to Biochemistry <b>and</b>	
CHEM 161	Techniques in Biochemistry	5

**Total Units = 28**

## Associate in Science Degree: Chemistry

Courses Required for the Major:	Units	
CHEM 200	General Chemistry I - Lecture	3
CHEM 200L	General Chemistry I - Lab	2
CHEM 201	General Chemistry II - Lecture	3
CHEM 201L	General Chemistry II - Lab	2
CHEM 231	Organic Chemistry I - Lecture	3
CHEM 231L	Organic Chemistry I - Laboratory	2
CHEM 251	Analytical Chemistry	5

**Plus fifteen units selected from the following:**

MATH 141	Precalculus	5
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4
PHYS 195	Mechanics	5
PHYS 196	Electricity & Magnetism	5
PHYS 197	Waves, Optics, & Modern Physics	5

**Total Units = 35**

## Associate in Science Degree: Chemistry Technician

Courses Required for the Major:	Units	
CHEM 160	Introduction to Biochemistry	3
CHEM 161	Techniques in Biochemistry	2
CHEM 200	General Chemistry I - Lecture	3
CHEM 200L	General Chemistry I - Lab	2
CHEM 201	General Chemistry II - Lecture	3
CHEM 201L	General Chemistry II - Lab	2
CHEM 231	Organic Chemistry I - Lecture	3
CHEM 231L	Organic Chemistry I - Laboratory	2
CHEM 233	Organic Chemistry II - Lecture	3
CHEM 233L	Organic Chemistry II - Laboratory	2
CHEM 251	Analytical Chemistry	5
CHEM 255	Inside the Pharmaceutical Industry	3
BIOL 107	General Biology - Lecture/Lab	4
BIOL 205	General Microbiology	5

**Total Units = 42**

**Note:** Only one Chemistry (CHEM) course from the above list may be used to satisfy SDCCD general education requirements.

For other graduation requirements see

**Requirements for the Associate Degree** on page 84.

**Electives (Mesa College) as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Astronomy 101, 109, 111, 290; Biology 107; Chemistry 100, 100L, 130, 130L, 152, 152L, 160, 161, 200, 200L, 201, 201L, 231, 231L, 233, 233L, 251, 255, 290, 296; Communication Studies 103; Computer and Information Sciences 150; Economics 120; Engineering 115, 151, 200, 210, 250, 260, 270; Geography 101, 101L, 102, 290; Geology 290, 296; Mathematics 96, 104, 118, 119, 141, 150, 151; Physical Sciences 100, 101, 290, 296; Physics 100, 125, 126, 195, 196, 197, 290.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency**

*in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.*

# Chicano Studies

Award Type	Units
<b>Associate in Arts Degree:</b> Chicano Studies	28*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

The Chicano Studies program provides an interdisciplinary approach, examines the interaction of the Chicano with the majority culture in a bilingual, bicultural setting. Chicano Studies courses are taught in English. The Chicano Studies curriculum is designed to meet general education requirements for all students. It also prepares students for upper division work toward a B.A. in Chicano Studies and professional fields, e.g., social sciences, humanities, law, teaching, social work, and public administration. Chicano Studies courses transfer to four-year colleges and universities.

## Student Learning Outcomes

Students who complete the Chicano Studies Program will be able to:

- Articulate the multiple historical factors that have contributed to the origins of the Chicano/a community in the United States.
- Understand and communicate the Chicano/a alternative world view as expressed in history, literature and art
- Analyze the development of the contemporary Chicano/a community in the United States through its history, art and literature

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Chicano Studies

Courses Required for the Major:		Units
CHIC 110A	Introduction to Chicano Studies	3
CHIC 110B	Introduction to Chicano Studies	3
CHIC 130	Mexican Literature in Translation (City)	
<b>or</b>		
CHIC 135	Chicana/o Literature	3
CHIC 203	Introductory Spanish for Spanish Speakers (City)	5
CHIC 204	Intermediate Spanish for Spanish Speakers (City)	5
CHIC 210	Chicano Culture	3

### Select six units from the following:

CHIC170	La Chicana	3
CHIC 201	Pre-Columbian Cultures of MesoAmerica	3
COMS 103	Oral Communications	3
ENGL 101	Reading and Compisition	3

**Total Units = 28**

**Note:** Only one Chicano Studies (CHIC) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Anthropology 200, 210, 215; Black Studies 100, 120; Chicano Studies 138, 141A, 141B, 150, 190, 201, 290, 296; English 105; History 115A, 115B, 150, 151; Sociology 101, 110.

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Child Development

Award Type	Units
<b>Certificate of Performance:</b>	
Assistant Teacher	10-13
Home Day Care	12
<b>Certificate of Achievement:</b>	
Associate Teacher	18-19
Teacher	26-29
Master Teacher	35-39
<b>Associate in Arts Degree:</b>	
Child Development	26-29*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

## Description

Child Development offers programs for Career and transfer students. Certificates of Performance, Certificates of Achievement and Associate Degree programs are available to students interested in a range of child development opportunities and in meeting the requirements for the State of California Child Development permits and the California State Department of Social Services, Title 22, Community Care Licensing.

## Program Emphasis

The Child Development program offers course work, training and supervised practicum experiences to meet state licensing requirements for working in centers, schools, child care homes and service related agencies. The skills and knowledge gained in beginning courses provide the framework and foundation for more specialized courses.

## Career Options

The San Diego Community College District offers certificates, a degree and transfer options in the field of Child Development/Early Childhood Education. The **Home Day Care** Certificate offered at Mesa provides skills and knowledge for child care in family settings. The **Assistant Teacher** Certificate of Performance prepares an individual to work in public and private child care settings. The Certificate of Achievement options, **Associate Teacher, Teacher and Master Teacher**, prepare individuals for higher level instructional positions. The **Assistant Teacher, Associate Teacher, Teacher, and Master Teacher** certificates meet the requirements for the

State of California Child Development Permits. The **Child Development Associate in Science Degree** prepares students for teacher, master teacher and director.

## Student Learning Outcomes

Students who complete the Child Development Program will be able to:

- Develop the ability to anticipate, recognize and successfully work with various learning styles and abilities of children with different needs.
- Apply their knowledge of children's physical, intellectual, social and emotional development to set up a stimulating learning environment and design a multicultural curriculum that involves age-appropriate activities.
- Assess, compare and contrast the ways in which families, childcare facilities, schools, peer groups and the community act as socializing agents for the developing child.
- Participate in student teaching and child observations to better understand behavior management and learn effective problem solving and conflict resolution.
- Develop the skills to meet the state of CA licensing requirements for working in centers, schools and child care homes as teachers, administrators or supervisors.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificates of Performance\*

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Performance: Assistant Teacher\*

This certificate prepares students to assist in the instruction of children under the supervision of an Associate Teacher or higher. Child Development courses must be completed with a grade of "C" or better.

Courses:	Units
CHIL 101 Human Growth and Development	3
CHIL 180 Nutrition, Health & Safety for Children	3

**Select one course from:**

CHIL 111	Curriculum: Music/Motor Skills	
CHIL 121	Creative Art	
CHIL 131	Curriculum: Language/Science	
CHIL 141	The Child, Family and Community	3

**Select one course from:**

CHIL 160	Observing and Understanding Children	
CHIL 161	Observations and Issues in Child Development	
CHIL 270	Work Experience	
CHIL 291	Child Development Lab Practicum	
CHIL 291A, or 291B, or 291C, or 291D,	Child Development Center Practicum	1-4

**Total Units = 10-13**

**Certificate of Performance:  
Home Day Care\***

This certificate prepares students for entry-level positions as home day care providers. Child Development courses must be completed with a grade of "C" or better.

<b>Courses:</b>		<b>Units</b>
CHIL 101	Human Growth and Development	3
CHIL 175	Infant-Toddler Growth and Development	3
CHIL 180	Nutrition, Health and Safety for Children	3
CONF 110	Personal Financial Management	3

**Total Units = 12**

**For the Certificates of Performance listed above, one or more of the following courses is recommended to gain experience and credits required for higher level permits:**

- CHIL 160, Observing and Understanding Children
- CHIL 161, Observations and Issues in Child Development
- CHIL 270, Work Experience
- CHIL 291, Child Development Lab Practicum
- CHIL 291A, or 291B, or 291C, or 291D, Child Development Center Practicum

**Certificate of Achievement:  
Child Development**

**Associate Teacher**

This certificate prepares students to provide instruction to children and supervise Assistant

Teachers. Child Development courses must be completed with a grade of "C" or better.

**Courses Required for the Major: Units**

CHIL 101	Human Growth and Development	3
CHIL 141	The Child, Family and Community	3
CHIL 180	Nutrition, Health & Safety for Children	3

**Select two courses from:**

CHIL 111	Curriculum: Music/Motor Skills	
CHIL 121	Creative Art	
CHIL 131	Curriculum: Language/Science	

6

**Select three or more units from:**

CHIL 160	Observing and Understanding Children	
CHIL 161	Observations & Issues in Child Development	
CHIL 270	Work Experience	
CHIL 291	Child Development Lab Practicum	
CHIL 291A, or 291B, or 291C, or 291D,	Child Development Center Practicum	3-4

**Total Units = 18-19**

**Certificate of Achievement:  
Child Development**

**Teacher**

This certificate prepares students to provide instruction to children and supervise Assistant and Associate Teachers. Child Development courses must be completed with a grade of "C" or better.

**Courses Required for the Major: Units**

CHIL 101	Human Growth and Development	3
CHIL 111	Curriculum: Music/Motor Skills	3
CHIL 121	Creative Art	3
CHIL 131	Curriculum: Language/Science	3
CHIL 141	The Child, Family and Community	3
CHIL 180	Nutrition, Health & Safety for Children	3
CHIL 151	Program Planning	3

**and concurrent enrollment in:**

CHIL 270	Work Experience <b>or</b>	
CHIL 275	Supervised Field Study	2-4

**Select one of the following three options:**

CHIL 160	Observing & Understanding Children <b>and</b>	
CHIL 161	Observations & Issues in Child Development <b>or</b>	
CHIL 165	Children with Special Needs <b>or</b>	

CHIL 175	Infant-Toddler Growth and Development	3-4
<b>Total Units = 26-29</b>		

## Certificate of Achievement: Child Development

### Master Teacher

This certificate prepares students to provide instruction to children and supervised Assistant/ Associate Teachers and Teachers. It further prepares the Master Teacher to coordinate curriculum and staff development. Child Development courses must be completed with a grade of "C" or better.

<b>Courses Required for the Major:</b>		<b>Units</b>
CHIL 101	Human Growth and Development	3
CHIL 111	Curriculum: Music/Motor Skills	3
CHIL 121	Creative Art	3
CHIL 131	Curriculum: Language/Science	3
CHIL 141	The Child, Family and Community	3
CHIL 151	Program Planning	3
CHIL 180	Nutrition, Health & Safety for Children	3

### AND

**Select one of the following three options that is NOT part of your Specialization (see Specializations listed below) to complete the minimum 24 unit core requirement:**

CHIL 160	Observing & Understanding Children and	3-4
CHIL 161	Observations & Issues in Child Development <b>or</b>	
CHIL 165	Children with Special Needs <b>or</b>	
CHIL 175	Infant-Toddler Growth and Development	

### AND

CHIL 215	Adult Supervision & Mentoring in Early Childhood Settings	3
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### AND

CHIL 270	Work Experience, <b>or</b>	2-4
CHIL 275	Supervised Field Study (with concurrent enrollment in CHIL 151, Program Planning)	

### AND

**Select one of the following Specializations for a total of 6 - 7 units:**

#### Guiding Young Children

CHIL 160	Observing & Understanding Children
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CHIL 161	Observations & Issues in Child Development
CHIL 162	Observing and Guiding Child Behavior <b>or</b>

#### Family Life

CHIL 160	Observing & Understanding Children
CHIL 161	Observations & Issues in Child Development
CHIL 188	Violence in the Lives of Children and Families <b>or</b>

#### Special Needs

CHIL 165	Children with Special Needs
CHIL 166	Special Needs Curriculum <b>or</b>

#### Infant/Toddler

CHIL 175	Infant-Toddler Growth and Development
CHIL 176	Principles of Infant/Toddler Caregiving <b>or</b>

#### School Age

CHIL 152	School-Age Program Planning <b>and</b>
----------	----------------------------------------

#### Select one course from:

CHIL 185	Computer Usage with Young Children (City) <b>or</b>
MATH 210A	Concepts of Elementary School Mathematics <b>or</b>
MUSI 110	Music for Elementary School Teachers <b>or</b>
PHYE 240	Physical Education in the Elementary Schools

6-7

**Total Units = 35-39**

## Associate in Science Degree: Child Development

This degree prepares students to provide instruction to children and supervise Assistant and Associate Teachers. Child Development courses must be completed with a grade of "C" or better. Additional general education and graduation requirements are listed in the Academic Requirements section of this catalog. The Associate Degree requires a minimum of 60 units.

#### Courses Required for the Major

		<b>Units</b>
CHIL 101	Human Growth and Development	3
CHIL 111	Curriculum: Music/Motor Skills	3
CHIL 121	Creative Art	3
CHIL 131	Curriculum: Language/Science	3
CHIL 141	The Child, Family and Community	3
CHIL 180	Nutrition, Health & Safety for Children	3
CHIL 151	Program Planning	3

**and concurrent enrollment in:**

CHIL 270	Work Experience, <b>or</b>	
CHIL 275	Supervised Field Study	2-4

**Select one of the following three options:**

CHIL 160	Observing & Understanding Children <b>and</b>	
CHIL 161	Observations & Issues in Child Development <b>or</b>	
CHIL 165	Children with Special Needs <b>or</b>	
CHIL 175	Infant-Toddler Growth and Development	
		3-4

**Total Units = 26-29**

**Recommended Electives:** (select from courses not already taken): Child Development 152, 160, 161, 162, 165, 166, 175, 176, 185 (City), 188, 202, 210, 215, 270, 275, 290, 291A, 291B, 291C, 291D.

**Courses offered by San Diego Community College District that meet experience requirements for Certificates and Degrees:**

CHIL 160	Observing & Understanding Children, 2 units (16 days)
CHIL 161	Observation & Issues in Child Development, 2 units (16 days)
CHIL 270	Work Experience, 1 unit (16 days)
CHIL 270	Work Experience, 2 unit (32 days)
CHIL 270	Work Experience, 3 unit (48 days)
CHIL 270	Work Experience, 4 unit (64 days)
CHIL 275	Supervised Field Study, 2 units (32 days)
CHIL 291	Child Development Lab Practicum, 1 unit (16 days)
CHIL 291A	Child Development Practicum, 1 unit (16 days)
CHIL 291B	Child Development Practicum, 1 unit (16 days)
CHIL 291C	Child Development Practicum, 1 unit (16 days)
CHIL 291D	Child Development Practicum, 1 unit (16 days)

**Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in**

**Arts degrees require third semester competency in a foreign language. Consult with the current catalog of the transfer institution and consult with a counselor.**

# Communication Studies

Award Type	Units
<b>Certificate of Performance:</b> Communication Studies	9
<b>Associate in Arts Degree:</b> Communication Studies	18*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

**Description**

This program is designed to offer the Associate in Arts degree and Certificate of Performance as well as a broad spectrum of communication classes that provide preparation for the major in Communication, and training for occupations in which public contact and verbal skills are important.

**Statement of Goals**

The Communication Studies program is designed to prepare students to meet lower division transfer requirements and to allow students to participate in several areas of oral communication, including public speaking, interpersonal communication, oral interpretation, and debate.

**Program Emphasis**

The Communication Studies program emphasizes preparation for the major in Communication and provides students the opportunity to develop skill in public speaking, interpersonal and group communication, oral interpretation, and debate. In addition, students are able to participate in Speech/Debate competitions.

**Career Options**

Students in this program develop personal and professional communication skills that prepare them to enter careers in community service, sales, performing arts, teaching, and other communication professions. Most of these fields require an advanced degree.



## Student Learning Outcomes

Students who complete the Communication Studies Program will be able to:

- Analyze contemporary socio-political issues by delivering speeches on select topics. Speeches are highly developed, outlined, and fully supported with research. Students must move beyond mere description and provide a rationale for their thought process.
- Use oral and written communication to advance ideas and advocate positions.
- Engage in speech activities such as persuasive speaking where they will advocate controversial ideas to others, adapt to audiences, and critically analyze contentious issues. Speeches are taped and students are expected to analyze their own performance as well as provide feedback for other speakers.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Speech and Debate

The Olympian Speech and Debate Program is dedicated to improving students' speaking skills. The team will travel to several tournaments a year, competing in eleven Individual Speech Events (Informative, Persuasion, After Dinner Speaking, Poetry, Prose, Dramatic Interpretation, Programmed Oral Interpretation, Duo, Communication Analysis, Impromptu, Extemp) and Parliamentary Debate. If you wish to become a better speaker, have some fun, and enjoy a truly competitive activity, the San Diego Mesa College Olympian Speech and Debate Team is for you.

## Certificate of Performance: Communication Studies\*

A Certificate of Performance in Communication Studies is valuable for students in vocational and technical fields as well as for those who wish to transfer to a four-year college or university. The communication skills include presentation skills as well as group and interpersonal skills, making the Certificate of Performance a valuable addition to any resume.

Courses:	Units
COMS 103 Oral Communication	3
<b>Select six units from:</b>	
COMS 101 Voice and Articulation	
COMS 104 Advanced Public Communication	
COMS 111 Oral Interpretation	
COMS 117A Intercollegiate Forensics	
COMS 117B Intercollegiate Forensics	
COMS 117C Intercollegiate Forensics	
COMS 117D Intercollegiate Forensics	
COMS 135 Interpersonal Communication	
COMS 160 Argumentation	
COMS 170 Small Group Communication	
COMS 180 Intercultural Communication	
	6
<b>Total Units = 9</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Associate in Arts Degree: Communication Studies

The Associate in Arts in Communication Studies certifies that a student has emphasized the theory and practice of communication skills, has met the preparation for the major in Communication, and is prepared to begin upper division work at a four-year college or university.

Courses Required for the Major:	Units
COMS 103 Oral Communication	3
<b>Select fifteen units from:</b>	
COMS 101 Voice and Articulation	
COMS 104 Advanced Public Communication	
COMS 111 Oral Interpretation	
COMS 117A Intercollegiate Forensics	
COMS 117B Intercollegiate Forensics	
COMS 117C Intercollegiate Forensics	
COMS 117D Intercollegiate Forensics	
COMS 135 Interpersonal Communication	
COMS 160 Argumentation	
COMS 170 Small Group Communication	
COMS 180 Intercultural Communication	
COMS 290 Independent Study	
	15
<b>Total Units = 18</b>	

**Note:** Only one Communication Studies (COMS) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Communication Studies 99, 117C, 117D, 165, and courses in Dramatic Arts; Theatre Arts; Radio and Television; Journalism; Sociology; and Psychology.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

### Computer Aided Design/Drafting

See "Architecture" on page 136.

# Computer Business Technology

Award Type	Units
<b>Certificate of Performance:</b>	
General Office Clerk	11
Keyboarder/Word Processor	8-9
Desktop Publishing	9
<b>Certificate of Achievement:</b>	
Administrative Assistant	23-25
Information Management Technology	21
Microcomputer Applications	24-26
<b>Associate in Science Degree:</b>	
Administrative Assistant	25.5-27.5*
Information Management Technology	21*
Microcomputer Applications	33.5-35.5*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

Computers and web technologies are ubiquitous in the majority of businesses and industries. Computer Business Technology is a versatile field as it offers employment opportunities in a variety of business settings. The Computer Business Technology Associate Degree and Certificate programs are designed to prepare students for entry-level positions and to provide working professionals with the opportunity to enhance and modernize their skills in computer technologies, web design, information/records management, desktop publishing and computer-related office skills.

### Career Options

Web Design, Microcomputer Applications, Administrative Assistant, Office Clerk, Word Processor, Desktop Publishing and Information Management Technology (Records Management).

### Student Learning Outcomes

Students who complete the Computer Business Technology Program will gain facility with:

- **Technological Awareness:** Students will be able to evaluate and apply appropriate technology to support specific business activities and business solutions.
- **Critical Thinking:** Students will be able to analyze specific business problems or situations and identify possible solutions, including predictive analysis, synthesis of information, resourcefulness, and troubleshooting.
- **Communication:** Students will be able to choose the appropriate mode of communication for a specific situation and then communicate ideas, concepts, and solutions through effective written and oral communication.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Performance: Desktop Publishing\*

This certificate in desktop publishing equips students to create published materials for businesses and public agencies.

Courses:	Units
CBTE 170 Desktop Publishing	2

CBTE 175	Desktop Publishing Essentials	3
CBTE 176	Advanced Desktop Publishing and Typography	3
CBTE 177	Acrobat Portable Document Format File Creation	1
<b>Total Units = 9</b>		

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Administrative Assistant

Prepares the student for employment in business or civil service as a general office clerk, clerk-typist, file clerk, receptionist, cashier, word processor, machine transcriptionist, or other positions not requiring stenography.

### Certificate of Performance: General Office Clerk\*

This certificate prepares students for entry-level positions as administrative assistants.

<b>Courses:</b>	<b>Units</b>
CBTE 101 Keyboarding for Computers	1
CBTE 120 Beginning Microsoft Word	2
CBTE 164 Introduction to Microsoft Outlook	1
CBTE 180 Microsoft Office	3
CBTE 210 Computers in Business	3
<b>Total Units = 10</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Performance: Keyboarder/Word Processor\*

This certificate prepares students for entry-level positions as administrative assistants.

<b>Courses:</b>	<b>Units</b>
CBTE 101 Keyboarding for Computers <b>or</b>	
CBTE 102 Keyboarding	1-2
CBTE 120 Beginning Microsoft Word	2
CBTE 122 Intermediate Microsoft Word	3
CBTE 164 Introduction to Microsoft Outlook	1
<b>Total Units = 7-8</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's

transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Achievement: Computer Business Technology

### Administrative Assistant

<b>Courses Required for the Major:</b>	<b>Units</b>
CBTE 101 Keyboarding for Computers <b>or</b>	
CBTE 102 Keyboarding <b>or</b>	
CBTE 103 Beginning Computer Keyboarding	1-3
CBTE 120 Beginning Microsoft Word	2
CBTE 122 Intermediate Microsoft Word	3
CBTE 140A Introduction to Microsoft Excel	1
CBTE 151 Introduction to Microsoft Access	1
CBTE 170 Desktop Publishing	2
CBTE 205 Records Management	3
CBTE 210 Computers in Business <b>or</b>	
CBTE 211 Office Administration (City)	3
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications	3
<b>Total Units = 22-24</b>	

## Associate in Science Degree: Computer Business Technology

### Administrative Assistant

<b>Courses Required for the Major:</b>	<b>Units</b>
CBTE 101 Keyboarding for Computers <b>or</b>	
CBTE 102 Keyboarding <b>or</b>	
CBTE 103 Beginning Computer Keyboarding	1-3
CBTE 120 Beginning Microsoft Word	2
CBTE 122 Intermediate Microsoft Word	3
CBTE 140A Introduction to Microsoft Excel	1
CBTE 151 Introduction to Microsoft Access	1
CBTE 170 Desktop Publishing	2
CBTE 198A Project Lab I	0.5
CBTE 200 Office Telecommunications	2
CBTE 205 Records Management	3
CBTE 210 Computers in Business <b>or</b>	
CBTE 211 Office Administration (City)	3
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications	3
<b>Total Units = 24.5-26.5</b>	

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Computer and Information Sciences 130 (City, Mesa); Computer Business Technology 126, 161, 270; Business 150.

## Information Management Technology

The role of the information and records manager in information technology is selection and design of systems, equipment, control, and maintenance of a records center.

### Certificate of Achievement: Computer Business Technology Information Management Technology

Courses Required for the Major:		Units
CBTE 151	Introduction to Microsoft Access	1
CBTE 161	Learning the Internet	1
CBTE 180	Microsoft Office	3
CBTE 200	Office Telecommunications	2
CBTE 205	Records Management	3
CBTE 210	Computers in Business <b>or</b>	
CBTE 211	Office Administration (City)	3
BUSE 119	Business Communications	3
CISC 130	Introduction to Local Area Networks (City, Mesa)	1
COMS 103	Oral Communication	3

**Total Units = 20**

### Associate in Science Degree: Computer Business Technology Information Management Technology

Courses Required for the Major:		Units
CBTE 151	Introduction to Microsoft Access	1
CBTE 161	Learning the Internet	1
CBTE 180	Microsoft Office	3
CBTE 200	Office Telecommunications	2
CBTE 205	Records Management	3
CBTE 210	Computers in Business <b>or</b>	
CBTE 211	Office Administration (City)	3
BUSE 119	Business Communications	3
CISC 130	Introduction to Local Area Networks	1
COMS 103	Oral Communication	3

**Total Units = 20**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Accounting 116A; Business 101, 140, 150; Computer Business Technology 140, 270.

## Microcomputer Applications

Provides training in major office systems and Technology used to enhance productivity and communications.

### Certificate of Achievement: Computer Business Technology Microcomputer Applications

Courses Required for the Major:		Units
CBTE 101	Keyboarding for Computers <b>or</b>	
CBTE 102	Keyboarding <b>or</b>	
CBTE 103	Beginning Computer Keyboarding	1-3
CBTE 120	Beginning Microsoft Word	2
CBTE 122	Intermediate Microsoft Word	3
CBTE 126	Document Processing	3
CBTE 140A	Introduction to Microsoft Excel	1
CBTE 151	Introduction to Microsoft Access	1
CBTE 161	Learning the Internet	1
CBTE 164	Introduction to Microsoft Outlook	1
CBTE 167	Webpage creation using Microsoft Expression Web (City, Miramar)	3
CBTE 170	Desktop Publishing	2
CBTE 200	Office Telecommunications	2
BUSE 119	Business Communications	3
CISC 130	Introduction to Local Area Networks (City, Mesa)	1

**Total Units = 24-26**

### Associate in Science Degree: Computer Business Technology Microcomputer Applications

Courses Required for the Major:		Units
CBTE 101	Keyboarding for Computers <b>or</b>	
CBTE 102	Keyboarding <b>or</b>	
CBTE 103	Beginning Computer Keyboarding	1-3
CBTE 120	Beginning Microsoft Word	2
CBTE 122	Intermediate Microsoft Word	3
CBTE 126	Document Processing	3
CBTE 140A	Introduction to Microsoft Excel	1
CBTE 151	Introduction to Microsoft Access	1

CBTE 161	Learning the Internet	1
CBTE 164	Introduction to Microsoft Outlook	1
CBTE 167	Webpage creation using Microsoft Expression Web (City, Miramar)	3
CBTE 170	Desktop Publishing	2
CBTE 198A	Project Lab I	0.5
CBTE 200	Office Telecommunications	2
CBTE 205	Records Management	3
CBTE 210	Computers in Business <b>or</b>	
CBTE 211	Office Administration (City)	3
BUSE 101	Business Mathematics	3
BUSE 119	Business Communications	3
CISC 130	Introduction to Local Area Networks (City, Mesa)	1

**Total Units = 33.5-35.5**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Business 150; Computer Business Technology 126, 162, 270; Computer and Information Sciences 150.

# Computer and Information Sciences

Award Type	Units
<b>Certificate of Performance:</b>	
Computer Programming	15
Microsoft Certified System Engineer	17
<b>Certificate of Achievement:</b>	
Computer and Information Sciences	31
<b>Associate in Arts Degree:</b>	
Computer and Information Sciences	31*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

Prepares students for employment in the rapidly expanding field of Computer and Information Sciences and offers the skills required to function effectively in various occupations and professions requiring the use of computers. Required courses focus upon the use and functioning of the computer

and relate the general study of the computer with studies of specific languages, enabling the student to combine computer hardware and software to process data into information. Upon completion of this curriculum, the student should have the capability to apply computer technology to diverse business and professional environments and be qualified for employment as an entry-level programmer in the computer and information sciences industry or transfer to 4-year institution.

## Student Learning Outcomes

Students who complete the Computer and Information Sciences Program will gain facility with:

- **Technological Awareness:** Students will be able to evaluate and apply appropriate technology to support specific business activities and business solutions.
- **Critical Thinking:** Students will be able to analyze specific business or information technology problems or situations and identify possible solutions, including predictive analysis, synthesis of information, resourcefulness, and troubleshooting.
- **Communication:** Students will be able to choose the appropriate mode of communication for a specific situation and then communicate ideas, concepts, and solutions through effective written and oral communication.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Performance: Computer Programming\*

This certificate of performance in computer programming requires completion of the courses listed below and is meant to prepare students who are planning on preparing for entry-level positions in computer programming and/or information technology. The certificate of performance also offers students the opportunity to learn or enhance computer programming skills.

Courses:	Units	
CISC 186	Visual Basic Programming	4
CISC 190	Java Programming	4
CISC 192	C/C++ Programming	4
CISC 210	System Analysis and Design	3

**Total Units = 15**

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Performance: Microsoft Certified System Engineer\*

Upon successful completion of this certificate, students will be prepared to take Microsoft Certification exams and for becoming successful Microsoft Certified System Engineers.

<b>Courses:</b>	<b>Units</b>
MSFT 051 Installing, Configuring, and Administering Windows 2000 Professional	2.5
MSFT 052 Installing, Configuring, and Administering Microsoft Windows 2000 Server	2.5
MSFT 053 Implementing and Administering a Microsoft Windows 2000 Network Infrastructure	2.5
MSFT 054 Implementing and Administering a Microsoft Windows 2000 Directory Infrastructure	2.5
MSFT 055 Designing a Microsoft Windows 2000 Directory Services Infrastructure	2.5
MSFT 056 Designing a Microsoft Windows 2000 Network Infrastructure	2
MSFT 057 Designing Security for a Microsoft Windows 2000 Network	2.5
<b>Total Units = 17</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Achievement: Computer and Information Sciences

The certificate of achievement in Computer Information Sciences requires completion of the courses listed below and is meant to prepare students who are planning and preparing for entry-level positions in the Computer Information Sciences Industry.

<b>Courses Required for the Major:</b>	<b>Units</b>
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4

BUSE 119 Business Communications	3
BUSE 140 Business Law & the Legal Environment	3
CISC 181 Principles of Information Systems	4
CISC 186 Visual Basic Programming	4
ECON 120 Principles of Macroeconomics	3
MATH 119 Elementary Statistics	3
CISC Elective(s)*	3

**Total Units = 31**

\*Choose a minimum of 3 units in CISC. Students should consult with their counselor prior to choosing electives to ensure electives meet program and/or transfer goals.

**Note:** Only one Computer and Information Sciences (CISC) course from the above list may be used to satisfy SDCCD general education requirements.

### Associate in Science Degree: Computer and Information Sciences

The associate degree in Computer Information Sciences requires completion of the courses listed below and is meant to prepare students who are planning on transferring to Information Decision Systems programs at four-year institutions. Additional general education and graduation requirements for the associate degree are listed on page 84 of this catalog. The associate degree requires completion of a minimum of 60 units.

<b>Courses required for the Major</b>	<b>Units</b>
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4
BUSE 119 Business Communications	3
BUSE 140 Business Law & the Legal Environment	3
CISC 181 Principles of Information Systems	4
CISC 186 Visual Basic Programming	4
ECON 120 Principles of Macroeconomics	3
MATH 119 Elementary Statistics	3
CISC Elective(s)*	3

**Total Units = 31**

\*Choose a minimum of 3 units in CISC. Students should consult with their counselor prior to choosing electives to ensure electives meet program and/or transfer goals.

**Note:** Only one Computer and Information Sciences (CISC) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Computer and Information Sciences 130, 132, 133, 150, 151, 270, 290; Economics 120, 121; Marketing 105.

**Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Consumer Studies

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Performance:</b> Skills for Success	7-9
<b>Certificate of Achievement:</b> Consumer Resource Management	22-25
<b>Associate in Arts Degree:</b> Consumer Resource Management	22-25*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

**Description**

Course work provides the concepts, skills and processes by which decisions about the use of resources are directed toward goal achievement. Financial and life management skills are emphasized.

**Student Learning Outcomes**

Students who complete the Consumer Studies Program will be able to:

- Analyze their own actions and see the perspective of others in regard to the use of resources.

- Analyze consumer resource challenges, weigh the pros and cons, and develop a course of action by utilizing critical thinking skills.
- Create a one-year financial plan designed to help achieve personal/family financial goals.
- Analyze and articulate personal financial performance by means of a one month variance analysis.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

**Certificate of Performance: Skills for Success\***

<b>Courses:</b>	<b>Units</b>
BUSE 119 Business Communications	3
CONF 110 Personal Financial Management	3
<b>Select one course from:</b>	
ENGL 43 English Review	3
PERG 30 Career Planning (City, Miramar)	1-3
PERG 127 College Success Seminar	3
<b>Total Units = 7-9</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

**Certificate of Achievement: Consumer Resource Management**

<b>Courses Required for the Major:</b>	<b>Units</b>
CONF 110 Personal Financial Management	3
CONF 140 Textiles	3
CONF 270 Work Experience	1-4
NUTR 150 Nutrition (City, Miramar)	3
NUTR 160 Foods for Healthy Lifestyles	3
CHIL 101 Human Growth and Development	3
FASH 125 Fashion Selection	3
INTE 145 Contemporary Housing	3
<b>Total Units = 22-25</b>	

**Associate in Science Degree: Consumer Resource Management**

<b>Courses Required for the Major</b>	<b>Units</b>
CONF 110 Personal Financial Management	3
CONF 140 Textiles	3
NUTR 150 Nutrition (City, Miramar)	3
NUTR 160 Foods for Healthy Lifestyles	3

CHIL 101	Human Growth and Development	3
FASH 125	Fashion Selection	3
INTE 145	Contemporary Housing	3
CONF 270	Work Experience	1-4

**Total Units = 22-25**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Consumer Studies 270, 290, 296; Child Development 141; Computer Business Technology 120, Psychology 101; Sociology 101; Fashion 190.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Culinary Arts/ Culinary Management

Award Type	Units
<b>Certificate of Achievement:</b> Culinary Arts/Culinary Management in Hospitality	30
<b>Associate in Arts Degree:</b> Culinary Arts/Culinary Management in Hospitality	48*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

Students in Culinary Arts/Culinary Management enjoy a practical hands-on approach to innovative methods and classical techniques, as well as numerous cuisines. A rigorous training program combines both laboratory and general education coursework, in addition to business courses including supervision and cost control. Students are prepared for employment and for transfer to four-year programs.

### Program Goals

A core set of culinary courses, keeping the major context, centers on the hospitality industry. Students obtain an integrated and expansive view of all hospitality segments for greater marketability and career opportunities.

### Program Emphasis

The world of hospitality is unique because it offers opportunities in a variety of vocations. Employees could manage departments in a hotel, plan new special effects at a theme park, hire and train employees at a resort, or select and buy china for a posh restaurant. They could forecast profitability of a new convention center, publicize a new attraction at a world-famous zoo, organize on-location catering for film crews, or lead port excursions for cruise passengers. They may also become an entrepreneur and own your own franchise eatery or bed and breakfast establishment. This is one field of study that can open many careers doors. Hospitality is the largest private sector industry worldwide. Significant growth is expected to continue in these areas, and the industry is known to promote from within and move talented employees quickly up the career ladder. Career paths can be found in many professions in the hospitality industry, where the focus is people, service and guest satisfaction.

### Career Options

Majoring in Culinary Arts/Culinary Management, will allow graduates to become a culinary specialist with varied career options such as being a caterer, line cook, restaurateur, executive chef, food stylist, pastry chef, kitchen manager, restaurant manager, private chef, entrepreneur, food writer or editor, product research and development specialist, or sous chef, to name a few. Rapid promotional opportunities in this field exist for people with increasing skill sets and enhanced educational backgrounds. Careers in hospitality and tourism extend far beyond individual



restaurants, recreation services, food service operations, hotels and lodging facilities, and travel-related businesses. Worldwide experiences abound in resorts, country clubs, catering companies, cruise lines, casinos, convention centers, theme parks, airlines, and more.

### Student Learning Outcomes

Students who complete the Culinary Arts/Culinary Management in Hospitality Program will be able to:

- Demonstrate academic and practical knowledge of food flavorings and seasoning of common national and international cuisines.
- Proficiently use all basic culinary equipment including large equipment to hand tools.
- Demonstrate all knowledge necessary to produce food in a safe and sanitary fashion for public consumption.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Achievement: Culinary Arts/Culinary Management in Hospitality

Courses Required for the Major:		Units
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 115	Strategic Leadership in Hospitality	3
CACM 101	Sanitation, Safety and Equipment	3
CACM 105	Fundamentals of Food Production Theory	3
CACM 110	Fundamentals of Cooking & Service	4
CACM 120	Menu Analysis & Event Catering	3
CACM 130	Quantity Food Preparation - Theory	3
CACM 131	Quantity Food Preparation Laboratory	4
CACM 140	Food and Beverage Purchasing and Control	3
CACM 291	Culinary Practicum	1
<b>Total Units = 30</b>		

### Associate in Science Degree: Culinary Arts/Culinary Management in Hospitality

Courses Required for the Major:		Units
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 115	Strategic Leadership in Hospitality	3
HOSP 150	Hospitality Human Resources	3
CACM 101	Sanitation, Safety and Equipment	3

CACM 105	Fundamentals of Food Production Theory	3
CACM 110	Fundamentals of Cooking & Service	4
CACM 120	Menu Analysis & Event Catering	3
CACM 130	Quantity Food Preparation - Theory	3
CACM 131	Quantity Food Preparation Laboratory	4
CACM 140	Food and Beverage Purchasing and Control	3
CACM 201	Gourmet Food Preparation Laboratory	3
CACM 205	Garde Manger Cold Food Production	3
CACM 210	Basic Baking and Pastry	3
CACM 291	Culinary Practicum	1
NUTR 150	Nutrition	3

#### Select one course from the following:

CACM 211	Quantity Food Preparation - Theory	
<b>or</b>		
NUTR 153	Cultural Foods	3

**Total Units = 48**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog.**

## Dance

Award Type	Units
<b>Certificate of Performance:</b> Dance	17

### Description

The Mesa College Dance Program offers a comprehensive curriculum designed to provide practical and theoretical training for students interested in a dance career. The core curriculum provides an excellent foundation in dance technique, choreography and performance skills. In addition, this program offers lower division theory courses to prepare the student for transfer to a four-year institution as a dance major. Students planning to

transfer to a school of dance should consult with a counselor to select acceptable transfer courses.

The following dance courses meet the Associate Degree physical education graduation requirement:

DANC 110	Ballet
DANC 111	Ethnic Dance
DANC 120	American Street Dance
DANC 130	Dance Repertoire
DANC 135	Jazz
DANC 140	Modern
DANC 177	Improvisation
DANC 178	Advanced Contemporary
DANC 179	Advanced Classical
DANC 261	Dance Performance

### Program Emphasis

The program emphasizes the development of dancers versed in a wide variety of movement genres. The core curriculum focuses on ballet, modern, jazz, improvisation, choreography, performance, production, music for dancers and dance history. Emphasis is placed on the practical application of techniques and theories in concerts and public performances. The program also offers the option to explore tap, hip hop, conditioning, ethnic and social dance forms.

### Career Options

The following list is a sample of the many career options open to students with a dance education. The majority of these options require a baccalaureate or graduate-level degree.

Professional Dancer, Choreographer, Dance Production Technician, Recreation Leader, Company Director, Movement Notator, Dance Therapist, Dance Teacher, Dance Critic, Fitness Instructor, Dance Promoter.

### Student Learning Outcomes

Students who complete the Dance Program will be able to:

- Identify, analyze, assess and perform dance combinations and choreography to reflect specified line, design, technique and vocabulary as well as rhythmic, dynamic and emotional concepts for a wide variety of movement genres.
- Apply aesthetic principles and critical thinking skills in the creation, performance and analysis of choreography.

- Identify, compare, contrast and evaluate theatrical forms of dance in a socio-historical context as an artistic, political or ideological medium of communication.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Performance: Dance\*

The Dance Certificate of Performance offers a comprehensive curriculum designed to provide practical and theoretical training for students interested in a dance career. In addition, this program offers lower division theory courses to prepare the student for transfer to a four-year institution as a dance major. Students planning to transfer to a school of dance should consult with dance faculty to select acceptable transfer courses.

Courses:	Units	
DANC 181	Introduction to Dance	3
DANC 183	Music for Dance	2
DANC 253	Choreography	2

#### Select ten units from the following:

DANC 110	Ballet <b>or</b>	
DANC 111	Ethnic Dance Forms	2
DANC 120	American Street Dance	0.5-1
DANC 130	Dance Repertoire	5-1
DANC 135	Jazz Dance <b>or</b>	
PHYE 135	Jazz Dance	0.5-1
DANC 140	Modern Dance I <b>or</b>	
PHYE 140	Modern Dance	0.5-1
DANC 177	Dance Improvisation	0.5-1
DANC 178	Advanced Contemporary Dance	1
DANC 179	Advanced Classical Dance	1
DANC 261	Dance Performance	2
DANC 271	Dance Production	1-2

**Total Units = 17**

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

# Dental Assisting (RDA, CDA)

Award Type	Units
<b>Certificate of Achievement:</b> Dental Assisting (RDA,CDA)	33.5
<b>Associate in Science Degree:</b> Dental Assisting (RDA,CDA)	33.5*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

This program has a prerequisite course that is offered during the summer session only. This program is a two-semester certificate program which prepares the student for employment to work as a Dental Assistant (DA) as well as prepares the student for their state and national boards. Training includes four and six-handed dentistry in: basic and advanced chairside dental support procedures; sterilization of instruments and infection control; prepare and manipulate a variety of dental materials; work on the dental patients under the supervision of the dentist; California Dental Practice Act; oral and written communications in the dental setting; operate dental x-ray equipment including exposing, processing, and mounting dental radiographs manually and digitally; coronal polish; dental business administration software and responsibilities are also taught as well as all dental specialties. Students must complete four units of Directed Clinical Practice. This allows the student to participate in the externship to advance their clinical skills.

The program is accredited by the Dental Board of California and the Commission on Dental Accreditation of the American Dental Association, and is supported by the San Diego County Dental Society and the San Diego County Dental Assistants Society. Upon completion of the program the student is awarded a Certificate of Achievement from the college and will receive a Certificate of Performance to operate dental x-ray equipment in the State of California. Proof of completion in Coronal Polish will be presented to successful students at the completion of the program. The student is eligible to take the California Registered Dental Assistant (RDA) State written and practical

boards and the Certified Dental Assistant (CDA) National written examination.

Eligibility for enrollment in this program is determined by a special admission process. Interested students should contact the admissions office at 619-388-2684 or the Program Director at 619-388-2697. Course repetition in this program is not permitted. This program is governed by the Allied Health Department Policies.

## Directed Clinical Practice Requirement

Students accepted into this program will be required to successfully complete Directed Clinical Practice/ clinically-based courses held in health care facilities. These facilities may require background checks, including fingerprinting, as a condition of placement at the clinic.

Refusal to submit to a background check, or failure to meet clearance criteria established by the health care facility, may prevent placement in the Directed Clinical Practice/clinically-based course and thus, it may not be possible to successfully complete the program.

Health care facilities also require adherence to strict standards of conduct. Facilities may refuse educational access to any person who does not adhere to the facility's standards of safety, health and ethical behavior. This may be cause of removal from the program.

## Program Emphasis

The San Diego Mesa Dental Assisting Program requires state-of-the-art dental equipment, hardware, and software to maintain relevance for dental assisting students and to be competitive with the other dental assisting schools. The dental field is changing rapidly in regards to new technology, equipment and allowable duties. According to the local Dental Society advisory members there is not only a demand for qualified Registered Dental Assistants but also the Dental Business Administrative Assistant.

## Career Options

According to the Employment Development Department Labor Market Information Division study of 2002-2012, 840 new positions are projected for San Diego County in the area of dental assisting with an average of 120 a year for the next four years. Labor Market data continues to show a tremendous demand in dental assisting for the next several years.

## Student Learning Outcomes

Students who complete the Dental Assisting Program will be able to:

- Perform safe and effective interventions and data collection within the unlicensed Dental Assistant and licensed Registered Dental Assistant's scope of practice.
- Be knowledgeable of the California Dental Practice Act, which are the laws and regulations as they relate to the dental health care professionals.
- Communicate effectively, both verbally and in writing, as appropriate for a Dental Assistant.
- Become a chairside Dental Assistant.
- Become a chairside Registered Dental Assistant.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: Dental Assisting (RDA,CDA)

### Courses Required for the Major: Units

#### Summer

DENA 102	Dental Communications	3
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#### Fall

DENA 103	Preventive Dental Care	1.5
DENA 103L	Preventive Dental Care Lab	0.5
DENA 106	Basic Dental Science	3.5
DENA 116	Dental Materials	2
DENA 116L	Dental Materials - Lab	1
DENA 124	Basic Dental Assisting	2
DENA 124L	Basic Dental Assisting Lab	2
DENA 128	Dental Radiology	2.5
DENA 128L	Dental Radiography Lab	1
DENA 186A	Directed Clinical Practice	1

#### Spring

DENA 132	Clinical Business Management	1.5
DENA 132L	Clinical Business Management Lab	1
DENA 136	Dental Radiography II	1
DENA 186B	Directed Clinical Practice	3

**Total Units = 26.5**

## Associate in Science Degree: Dental Assisting (RDA,CDA)

### Courses Required for the Major: Units

#### Summer

DENA 102	Dental Communications	3
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#### Fall

DENA 103	Preventive Dental Care	1.5
DENA 103L	Preventive Dental Care Lab	0.5
DENA 106	Basic Dental Science	3.5
DENA 116	Dental Materials	2
DENA 116L	Dental Materials - Lab	1
DENA 124	Basic Dental Assisting	2
DENA 124L	Basic Dental Assisting Lab	2
DENA 128	Dental Radiology	2.5
DENA 128L	Dental Radiography Lab	1
DENA 186A	Directed Clinical Practice	1

#### Spring

DENA 132	Clinical Business Management	1.5
DENA 132L	Clinical Business Management Lab	1
DENA 136	Dental Radiography II	1
DENA 186B	Directed Clinical Practice	3

**Total Units = 26.5**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Dental Assisting 290.

## Dietetic Service Supervisor Certificate

See "Nutrition" on page 233.

## Dramatic Arts

### Award Type Units

#### Associate in Arts Degree:

Dramatic Arts	34*
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\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

The major in dramatic arts consists of a "core" program, the Mesa College Theatre Company (MCTC), plus three courses designed to complement the student's breadth of knowledge in the dramatic

arts. MCTC is designed as a two-year training program encompassing study in the areas of acting, scenery, lighting, costumes, and management. Practical, hands-on production experience combined with more formal instruction provides a comprehensive introduction to the dramatic arts as either a career option or a field of study. Students planning to transfer to four-year schools should consult catalogs for those schools. Some courses listed below as electives may transfer only as electives, rather than as lower division requirements.

### Statement of Goals

This program is designed to provide a unique “hands-on” approach to the study of the dramatic arts. The core of the program is the Mesa College Theatre Company (MCTC), a two year curriculum which encompasses training in all aspects of the discipline. The program provides a solid foundation for the study of dramatic arts and enables students to obtain an Associate in Arts degree or complete preparation for the major in dramatic arts as necessary for transfer to a four-year school. The program also prepares students to pursue a career in various occupations throughout the entertainment and communication industries.

### Program Emphasis

This program emphasizes the study of dramatic arts through participation in all aspects of theatrical production. It is a comprehensive program providing practical and theoretical experiences for the student interested in the study and creation of the dramatic arts.

### Career Options

The study of dramatic arts will prepare students to pursue careers in a variety of areas both within and beyond the entertainment industries. Careers such as actor, director, casting director, stage manager, designers, business manager, special events coordinator, producer, theatre manager, and teacher top the list. More importantly, however, students will gain skill in oral communication, problem solving, self confidence, leadership, adaptability, and flexibility, as well as the ability to work under pressure, meet deadlines, and work cooperatively with others. These are skills that will aid them in whatever career path they choose.

### Student Learning Outcomes

Students who complete the Dramatic Arts Program will be able to:

- Expand their knowledge of the world and society and demonstrate it through drama.
- Understand and describe plays and performance in terms of the questions they pose about themselves and their world.
- Evaluate their emotional, behavioral, sensory and cognitive resources as they apply to the conventions of the theater.
- Appreciate the significance of a collaborative environment.
- Incorporate the lessons learned through Dramatic Arts classes into their own lives, in whatever capacity it serves them.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Dramatic Arts Program

The Dramatic Arts Program at Mesa College is designed to meet the needs of the dramatic arts major as well as general education classes and courses for the casual theatre student. The Mesa College Theatre Company is a two-year training program for drama majors. The company requires majors to participate in all aspects of production including performance, design, technology, and management. All of the productions of the Mesa College Theatre Company utilize student designers, actors, and technicians as well as the opportunity to direct student one acts. The department produces 4 plays per year - participation is restricted to Dramatic Arts majors. This program is open to anyone interested in acting or directing. The department offers courses in acting, script analysis, and make-up, as well as general education courses in theatre and cinema.

### Associate in Arts Degree: Dramatic Arts

The associate degree in Dramatic Arts certifies that a student has achieved a broad knowledge of the dramatic arts through a variety of specific experiences and, as a result, has produced a range of work signifying a thorough understanding of the discipline. This degree addresses the requirements

for transfer to four-year colleges and universities and conservatory programs, and prepares students for entry-level careers in the entertainment industry as well.

The courses required for the major are intended to introduce the student to all aspects of theatre. Emphasis is placed on production, as participation results in active learning, allowing the student valuable hands-on experience. Through the course of the two year program, students will study acting scenery, costuming, lighting, and audio as well as being introduced to production and state management techniques and responsibilities.

<b>Courses Required for the Major:</b>	<b>Units</b>
DRAM 105 Introduction to Dramatic Arts	3
DRAM 100A Fundamentals of Performance and Production I	4
DRAM 100B Fundamentals of Performance and Production II	4
DRAM 112 Introduction to Script Analysis	3
DRAM 122 Makeup for the Stage	2
DRAM 200A Fundamentals of Performance and Production III	4
DRAM 200B Fundamentals of Performance and Production IV	4
DRAM 250 Rehearsal, Production and Performance	4
<b>Choose six units from the following:</b>	
DRAM 132 Beginning Acting	3
DRAM 133 Intermediate Acting	3
DRAM 165 Introduction to Stage Movement	3
ENGL 240 Shakespeare	3
COMS 101 Voice and Articulation	3
ARTF 100 Art Orientation	3
ARTF 151 Three-Dimensional Design	3
ARTF 152 Color Theory	3
ARTF 155A Freehand Drawing I	3
FASH 120 Fashion History and Trends	3
MUSI 190 The Electronic Music Studio	3
MUSI 201 Recording Arts	3
MUSI 202 Computer Music	3
ACCT 116A Financial Accounting	4
BUSE 150 Human Relations in Business	3
BUSE 201 Business Organization and Management	3
DRAM 235 Literature to Life-A Scene Study Course	2
DRAM 268 Experimental Theatre	1 - 3
DRAM 290 Independent Study	1 - 3
<b>Total Units = 34</b>	

While the required courses for the major in Dramatic Arts are intended to give the student a broad understanding of the various areas of study in the Dramatic Arts, required elective classes give the student the option to pursue one of those areas in more detail. For the student interested in acting, additional acting classes, movement classes or voice classes are recommended. The technician/design student would pursue classes in art history, fashion history or practical lab courses. The student interested in production management should enroll in accounting and business classes that would further their base of knowledge in that area.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree.**

### **Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

### **Economics**

See "Economics" courses on page 341.

### **Education**

See "Liberal Studies Elementary Education Preparation" on page 224.

# Engineering

Award Type	Units
<b>Certificate of Achievement:</b> Engineering	35
<b>Associate in Science Degree:</b> Engineering	35*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

Upon completion of the required pattern of engineering courses and other degree graduation requirements an Associate in Science Degree in Engineering will be granted. A certificate program is also offered in engineering.

## Emphasis

The Engineering Program allows the student to fulfill the lower division engineering requirements for transfer programs to four-year institutions as well as acquire the necessary skills for employment in engineering.

## Career Options

Most careers in engineering require education beyond the associate degree and some require a graduate degree. Career opportunities include Mechanical Engineering, Civil and Environmental Engineering, Electrical Engineering, Bioengineering, Computer Engineering, Industrial Engineering, Engineering Physics, Chemical Engineering, and Aerospace Engineering.

## Student Learning Outcomes

Students who complete the Engineering Program will be able to:

- Apply their knowledge of math, science, and engineering to analyze, conceptualize, identify, formulate, and solve engineering problems.
- Use technological software to design and implement projects in engineering.
- Communicate effectively and perform on multi-disciplinary teams and groups.
- Develop a design given a set of requirements and specifications.

- Demonstrate professional ethical responsibility.
- Increase their global awareness by using techniques, skills, and modern global engineering tools necessary for engineering practice.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: Engineering

Courses Required for the Major:	Units
ENGE 151 Engineering Drawing	
ENGE 200 Statics	
ENGE 210 Properties of Materials	
ENGE 250 Dynamics	
	11

### Plus twenty-four units selected from the following:

CHEM 200 General Chemistry I - Lecture	3
CHEM 200L General Chemistry I - Lab	2
CHEM 201 General Chemistry II - Lecture	3
CHEM 201L General Chemistry II - Lab	2
ENGE 240 Digital Systems	3
ENGE 260 Electric Circuits	3
MATH 141 Precalculus	5
MATH 150 Calculus with Analytic Geometry I	5
MATH 151 Calculus with Analytic Geometry II	4
MATH 252 Calculus with Analytic Geometry III	4
PHYS 195 Mechanics	5
PHYS 196 Electricity & Magnetism	5
PHYS 197 Waves, Optics, & Modern Physics	5

**Total Units = 35**

## Associate in Science Degree: Engineering

Courses Required for the Major:	Units
ENGE 151 Engineering Drawing;	
ENGE 200 Statics;	
ENGE 210 Properties of Materials;	
ENGE 250 Dynamics	
	11

### Plus twenty-four units selected from the following:

CHEM 200 General Chemistry I - Lecture	3
CHEM 200L General Chemistry I - Lab	2
CHEM 201 General Chemistry II - Lecture	3
CHEM 201L General Chemistry II - Lab	2
ENGE 240 Digital Systems	3
ENGE 260 Electric Circuits	3

MATH 141	Precalculus	5
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4
PHYS 195	Mechanics	5
PHYS 196	Electricity & Magnetism	5
PHYS 197	Waves, Optics, & Modern Physics	5

**Total Units = 35**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives (Mesa College) as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Astronomy 101, 109, 111, 290; Biology 107; Chemistry 100, 100L, 130, 130L, 152, 152L, 160, 161, 200, 200L, 201, 201L, 231, 231L, 233, 233L, 251, 255, 290, 296; Communication Studies 103; Computer and Information Sciences 150; Economics 120; Engineering 115, 151, 200, 210, 250, 260, 270; Geography 101, 101L, 102, 290; Geology 290, 296; Mathematics 96, 104, 118, 119, 141, 150, 151; Physical Sciences 100, 101, 290, 296; Physics 100, 125, 126, 195, 196, 197, 290.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## English

Award Type	Units
<b>Certificate of Achievement:</b>	
Creative Writing	15
<b>Associate in Arts Degree:</b>	
English	18*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

For students seeking a broad appreciation of literature and increased skills in communication. Superior ability to understand and use English is necessary for success in such careers as education, writing, advertising, selling, journalism, law, business and government.

Students planning to transfer to a four-year institution should learn the requirements for English majors at that institution.

### Student Learning Outcomes

Students who complete the English Program will gain facility with:

#### Rhetorical Awareness (as readers and writers)

- Students will be able to write clear, thoughtful prose using appropriate steps of a writing process
- Students will be able to identify arguments as well as patterns and strategies of organization in a variety of texts
- Students will be able to develop visual literacy to identify arguments in advertisements, websites, photographs and other visual media
- Students will be able to select appropriate research strategies
- Students will be able to employ correct citation formats

#### Critical Thinking

- Students will be able to: analyze and weigh the truth value of conflicting claims

#### Creative Thinking

- Students will be able to synthesize elements of texts in surprising and unexpected ways

#### Global Awareness

- Students will be able to describe and explain multiple perspectives
- Students will be able to analyze the effects of different cultural perspectives on classic and contemporary issues

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.



## Journalism Program

The English Department's Journalism Program is dedicated to familiarizing students with the demands of the journalism profession and providing them with a realistic experience in media production. In accordance with that vision for journalism education, the program provides an introductory course on news writing, reporting, editing, and media law and ethics. An advanced course devoted to the publication of The Mesa Press (Journalism 210A), San Diego Mesa College's campus newspaper, allows students to engage in all phases of newspaper production, including news writing, reporting, editing, photography, advertising, design and layout.

### Certificate of Performance: Creative Writing\*

This certificate is designed for students who want to hone their writing skills by participating in creative writing workshops and immersing themselves in literature and also for students preparing portfolios for 4-year colleges. Only two creative writing classes may be transferred to SDSU for the English major. However, the certificate also includes transfer general education courses, and other creative writing courses may transfer as electives.

Courses:	Units
<b>Select two courses from:</b>	
ENGL 249 Introduction to Creative Writing	
ENGL 245 Writing Creative Nonfiction	
ENGL 247 Writing Seminar-Poetry	
ENGL 253 Fundamentals of Fiction Writing	
ENGL 254 Intermediate Fiction Writing	
	6

<b>Select two courses from:</b>	
BLAS 155 Afro-American Literature	
CHIC 135 Chicana/o Literature	
ENGL 208 Introduction to Literature	
ENGL 210 American Literature I	
ENGL 211 American Literature II	
ENGL 215 English Literature I: 800 - 1799	
ENGL 216 English Literature II: 1800 - Present	
ENGL 220 Masterpieces of World Literature I: 1500 BCE - 1600 CE	
ENGL 221 Masterpieces of World Literature II: 1600 - Present	
ENGL 230 Asian American Literature	
ENGL 237 Women in Literature (City, Miramar)	
ENGL 238 Evaluating Children's Literature	

ENGL 240 Shakespeare	6
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#### Select one course from:

ENGL 249 Introduction to Creative Writing	
ENGL 245 Writing Creative Nonfiction	
ENGL 247 Writing Seminar - Poetry	
ENGL 253 Fundamentals of Fiction Writing	
ENGL 254 Intermediate Fiction Writing	
BLAS 155 Afro-American Literature	
CHIC 135 Chicana/o Literature	
ENGL 208 Introduction to Literature	
ENGL 210 American Literature I	
ENGL 211 American Literature II	
ENGL 215 English Literature I: 800 - 1799	
ENGL 216 English Literature II: 1800 - Present	
ENGL 220 Masterpieces of World Literature I: 1500 BCE - 1600 CE	
ENGL 221 Masterpieces of World Literature II: 1600 - Present	
ENGL 230 Asian American Literature	
ENGL 237 Women in Literature (City, Miramar)	
ENGL 238 Evaluating Children's Literature	
ENGL 240 Shakespeare	
	3

**Total Units = 15**

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Associate in Arts Degree: English

Courses Required for the Major:	Units
ENGL 101 Reading and Composition <b>or</b>	
ENGL 105 Composition and Literature	3
*ENGL 205 Critical Thinking and Intermediate Composition	3
ENGL 215 English Literature I: 800 - 1799	3
ENGL 216 English Literature II: 1800 - Present	3
<b>**Select three units from:</b>	
ENGL 208 Introduction to Literature	
ENGL 220 Masterpieces of World Literature I: 1500 BCE - 1600 CE	
ENGL 221 Masterpieces of World Literature II: 1600 - Present	
	3
<b>**Select three units from:</b>	
ENGL 210 American Literature I	
ENGL 211 American Literature II	
ENGL 230 Asian American Literature	

ENGL 245	Writing Creative Nonfiction	
ENGL 247	Writing Seminar-Poetry	
ENGL 249	Introduction to Creative Writing	3
<b>Total Units = 18</b>		

\*Meets SDSU/CSU critical thinking requirement.

\*\*Recommended sequence for UC transfer.

Not all courses are offered at each campus.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** English 202, 209, 238, 240, 245, 247, 249, 253, 254; Humanities 101, 102, 201, 202; Journalism 200, 210A/B/C/D.

**Courses designed to support this and other majors:** ESOL 19, 20, 21, 22, 30, 31, 32, 40.

### Transferable Units as Prep for the Major at SDSU

SDSU will accept a total of 12 units of literature and creative writing as preparation for the English Major. This includes any combination of lower division literature courses and up to six units of creative writing courses.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

### Environmental Design Studies

**Studies in Environmental Design leading to degrees and/or certificates are found in the following areas:**

Architecture  
Computer Aided Design/Drafting

Construction Management  
Garden Design  
Landscape Architecture

## Event Management

Award Type	Units
<b>Certificate of Achievement:</b>	
Event Management	30
<b>Associate in Science Degree:</b>	
Event Management	37*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

**\*For Courses, please see "HOSPITALITY (HOSP)" on page 371.**

### Description

Students gain solid business knowledge and comprehensive skills designed to help prepare for a career in the destination, event and meeting industries for any of the corporate, association, social, leisure, or hospitality and tourism arenas. Curriculum exposes students to develop and enhance sales techniques, efficiently and effectively research locations and activities available, and gain business skills necessary for success in providing the highest level of guest service and satisfaction. Extensive techniques are examined for increasing organizational skills and the attention to detail necessary to carry out events of all sizes. Coursework is supplemented by numerous field excursions and networking opportunities within San Diego county-which is one of the most prominent locations for destination and event management in the United States.

### Program Goals

A core set of meeting & event management courses, keeping the major in context, centers on the hospitality industry. Students obtain an integrated and expansive view of all hospitality and business segments for greater marketability and career opportunities.

### Program Emphasis

The world of hospitality is unique because it offers opportunities in a variety of vocations. Employees could manage departments in a hotel, plan new

special effects at a theme park, hire and train employees at a resort, or select and buy china for a post restaurant. They could forecast profitability of a new convention center, publicize a new attraction at a world-famous zoo, organize on-location catering for film crews, or lead port excursions for cruise passengers. They may also become an entrepreneur and own your own franchise eatery or bed and breakfast establishment. This is one field of study than can open many career doors. Hospitality is the largest private sector industry worldwide. Significant growth is expected to continue in these areas, and the industry is known to promote from within and move talented employees quickly up the career ladder. Career paths can be found in many professions in the hospitality industry, where the focus is people, service and guest satisfaction.

### Career Options

Meeting planners bring people together for meetings, seminars, conferences, trade shows and expositions. Event planners are actively involved in planning fairs, parties, and other special events. Certified entertainment managers organize and arrange for artists, music and amusement at meetings and events. Destination specialist are an authority on and know all about a specific city or area. And, incentive travel specialist set up and arrange incentive tours, group tours, and enticement travel and meetings for exceptional employees. Meeting and event professionals are found in a variety of disciplines ranging from catering, decorators, audio-visual technicians, party and convention coordinators, facilities directors, corporations, hotel sales managers and many more professional disciplines. Focus is on meeting and events the corporate, association, political, government, entertainment, social life-cycle, educational, religious, and community sectors. Students obtain an integrated and expansive view of all hospitality segments for greater marketability and career opportunities.

### Student Learning Outcomes

Students who complete the Event and Hotel Management Program will become critical thinkers in an experiential learning environment, who are able to apply business principles and ethical decision making to any aspect of the hospitality and global tourism industry, and cultivate their ability to enhance opportunities for promotion into higher level positions. Students will be able to:

- Assess and apply the concepts of hospitality business management.
- Produce and present effective written and oral communication for the hospitality industry.
- Evaluate ethical leadership and differentiate situations calling for ethical decision making.
- Demonstrate and articulate a global perspective.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: Event Management

<b>Courses Required for the Major:</b>		<b>Units</b>
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 102	Hospitality Financial Reporting	3
HOSP 111	Food and Beverage Management	3
HOSP 115	Strategic Leadership in Hospitality	3
HOSP 120	Event & Hospitality Sales & Marketing	3
HOSP 160	Meeting and Convention Management	3
HOSP 165	Special Event Management	3
HOSP 170	Event Promotion & Sponsorship	3
HOSP 175	Event Convention Service & Catering Management	2
HOSP 185	Event & Meeting Facilities Management <b>or</b>	
HOSP 186	The Business of Social Events & Wedding Consulting	2
HOSP 270 <sup>1</sup>	Work Experience	2
<b>Total Units = 30</b>		

<sup>1</sup>Students may complete 150 hours of Departmental approved industry practical training in lieu of this credit requirement.

**Recommended Electives:** Computer Business Technology 140, Business 119.

<b>Semester Sequence</b>		<b>Units</b>
<b>First</b>		
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 111	Food and Beverage Management	3
HOSP 115	Strategic Leadership in Hospitality	3
HOSP 120	Event & Hospitality Sales & Marketing	3
HOSP 160	Meeting and Convention Management	3
HOSP 175	Event Convention Service & Catering Management	2
<b>Second</b>		
HOSP 102	Hospitality Financial Reporting	3

HOSP 165	Special Event Management	3
HOSP 170	Event Promotion & Sponsorship	3
<b>or</b>		
HOSP 186	The Business of Social Events & Wedding Consulting	2
HOSP 270 <sup>1</sup>	Work Experience	2

<sup>1</sup>Students may complete 150 hours of Departmental approved industry practical training in lieu of this credit requirement.

## Associate in Science Degree: Event Management

<b>Courses Required for the Major:</b>		<b>Units</b>
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 102	Hospitality Financial Reporting	3
HOSP 110	Lodging Management & Operation	3
HOSP 111	Food and Beverage Management	3
HOSP 115	Strategic Leadership in Hospitality	3
HOSP 120	Event & Hospitality Sales & Marketing	3
HOSP 150	Hospitality Human Resources	3
HOSP 160	Meeting and Convention Management	3
HOSP 165	Special Event Management	3
HOSP 170	Event Promotion & Sponsorship	3
HOSP 175	Event Convention Service & Catering Management	2
HOSP 185	Event & Meeting Facilities Management <b>or</b>	
HOSP 186	The Business of Social Events & Wedding Consulting	2
HOSP 270 <sup>1</sup>	Work Experience	3

**Total Units = 37**

<sup>1</sup>Students may complete 250 hours of Departmental approved industry practical training in lieu of this credit requirement.

**Recommended Electives:** Business 119, Computer Business Technology 140.

<b>Semester Sequence</b>		<b>Units</b>
<b>First</b>		
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 110	Lodging Management & Operations	3
HOSP 111	Food and Beverage Management	3
HOSP 115	Strategic Leadership in Hospitality	3
HOSP 160	Meeting and Convention Management	3
<b>Second</b>		
CBTE 140	Microsoft Excel	2
BUSE 119	Business Communications	3
HOSP 102	Hospitality Financial Reporting	3

HOSP 165	Special Event Management	3
HOSP 175	Event Convention Service & Catering Management	2

### Third

HOSP 120	Event & Hospitality Sales & Marketing	3
HOSP 170	Event Promotion & Sponsorship	3
HOSP 270 <sup>1</sup>	Work Experience	3

### Fourth

HOSP 150	Hospitality Human Resources	3
HOSP 185	Event & Meeting Facilities Management <b>or</b>	
HOSP 186	The Business of Social Events & Wedding Consulting	2

<sup>1</sup>Students may complete 250 hours of Departmental approved industry practical training in lieu of this credit requirement.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog.**

# Fashion

Award Type	Units
<b>Certificate of Achievement:</b>	
Fashion Design	32-37
Fashion Merchandising	32-37
Computer Fashion Technology: Design	31
Computer Fashion Technology: Merchandising	30
<b>Associate in Science Degree:</b>	
Fashion Design	47-49*
Fashion Merchandising	38-43*
Computer Fashion Technology: Design	45-46*
Computer Fashion Technology: Merchandising	41-42*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

## Description

The Fashion program offers a variety of courses that allow students to develop skills to pursue careers in Fashion Design, Fashion Merchandising and related fashion careers. With a high emphasis on technology, both computer and equipment-based, students obtain skills that will help them secure positions and advance in the fashion field. Coursework is supplemented with participation in field excursions, guest lecturers, work experience positions, and opportunities that involve the local fashion community. Much of the emphasis of the program is on active student learning and participation in class and campus activities that involve leadership and planning. A strong advisory board of fashion professionals provides input to the program and supports various activities on and off-campus.

## Program Goals

The goal of the Fashion Program is to provide students with technical and career skills that will allow them to enter the fashion industry with a balance of knowledge, theory, and practical training. We strive to provide students with quality instruction, utilizing current technology and equipment, and relevant curriculum.

## Program Emphasis

The Fashion Program is designed for students interested in pursuing a fashion related career. Students gain practical, technical and knowledge-

based skills in their area of emphasis. In addition they gain an understanding of career opportunities and a working knowledge of the various components of the constantly changing fashion industry.

Students may specialize in one of four areas, including: Fashion Design, Fashion Merchandising, Computer Fashion Technology: Design, or Computer Fashion Technology: Merchandising.

Students planning to transfer to a four-year institution should consult the counseling department and a Fashion faculty advisor for assistance in program planning.

## Career Options

Students are prepared for careers in the areas of fashion design, technical design, pattern making, merchandising, retail management, fashion sales, buying, promotion, fashion graphic arts and illustration, visual merchandising, fashion styling, fashion e-commerce, textiles and print design.

## Student Learning Outcomes

Students who complete the Fashion Program will gain facility with:

- **Communication:** Students will have the ability to demonstrate effective communication and critical thinking through oral presentations and written work.
- **Technological Awareness:** Students will have the ability to use current technology such as computers, peripherals, and software or sewing equipment pertinent to fashion design or merchandising.
- **Global Awareness:** Students will have the ability to compare and contrast how various cultures and countries interrelate in the global fashion community.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: Fashion

### Fashion Design

Courses Required for the Major:		Units
FASH 105	Introduction to Fashion	3
FASH 120	Fashion History and Trends	3
FASH 125	Fashion Selection	3

FASH 130	Apparel Construction I	3
FASH 140	Clothing Design and Flat Pattern I	3
FASH 142	Fashion Sketching	3
FASH 145	Clothing Design Through Draping	3
FASH 155	Fashion Field Studies	1-4
FASH 175	Computer Fashion Design I: Adobe PhotoShop <b>or</b>	
FASH 176	Computer Fashion Design II: Adobe Illustrator	3
FASH 199A	Fashion Laboratory A	1
FASH 199B	Fashion Laboratory B	1
FASH 270	Work Experience	2-4
CONF 140	Textiles	3

**Total Units = 32-37**

## Certificate of Achievement: Fashion

### Fashion Merchandising

<b>Courses Required for the Major:</b>	<b>Units</b>	
FASH 105	Introduction to Fashion	3
FASH 108	Analysis, Evaluation, and Comparison of Ready-to-Wear Fashion	3
FASH 110	Fashion Buying/Management	3
FASH 112	Fashion Promotion	3
FASH 115	Visual Merchandising	3
FASH 125	Fashion Selection	3
FASH 155	Fashion Field Studies	1-4
FASH 178	Computer Publishing and Portfolio	3
FASH 270	Work Experience	2-4
CONF 140	Textiles	3
CBTE 140	Microsoft Excel	2

#### Select one course from:

MARK 105	Professional Selling <b>or</b>	
MARK 110	Principles of Retailing <b>or</b>	
MARK 130	Advertising Principles <b>or</b>	
FASH 190	Fashion Entrepreneurship	3

**Total Units = 32-37**

## Certificate of Achievement: Computer Fashion Technology

### Design

The Computer Fashion Technology: Design Certificate of Achievement offers students courses that prepare them for work in the Fashion Design field. The emphasis on technological training provides students with a solid background that expands career options to include a growing number of fashion industry positions requiring strong

computer and software skills. Students are trained to work with digital fashion design and illustration, computerized patternmaking, technical design, textile and graphic design, and Internet sales and marketing.

#### **Courses Required for the Major:** **Units**

**The Fashion Program recommends that students take FASH 130, 199A early in their course of study and take FASH 140 prior to taking Fashion 171.**

FASH 105	Introduction to Fashion	3
FASH 130	Apparel Construction I	3
FASH 140	Clothing Design and Flat Pattern I	3
FASH 171	Computer Flat Pattern Design	3
FASH 173	Fashion Marketing on the Internet	1
FASH 175	Computer Fashion Design I: Adobe PhotoShop	3
FASH 176	Computer Fashion Design II: Adobe Illustrator	3
FASH 178	Computer Publishing and Portfolio	3
FASH 199A	Fashion Laboratory A	1
CBTE 140	Microsoft Excel	2
CBTE 180	Microsoft Office	3
CONF 140	Textiles	3

**Total Units = 31**

**Recommended Electives:** Fashion 108, Multimedia 101.

## Certificate of Achievement: Computer Fashion Technology Merchandising

Computer Fashion Technology: Merchandising Certificate of Achievement offers students courses that prepare them for work in Fashion Merchandising. The emphasis on software and technology provides students with a sound background that expands career options to include a growing number of fashion merchandising positions requiring strong computer and software skills. Students are trained to work in areas of fashion graphics, buying, marketing (traditional and Internet), promotion and publishing, business skills and general management for both small and large business operations.

#### **Courses Required for the Major:** **Units**

**The Fashion Program suggests students take Fashion 270, Work Experience, near the end of their course of study.**

FASH 105	Introduction to Fashion	3
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FASH 108	Analysis, Evaluation, and Comparison of Ready-to-Wear Fashion	3
FASH 110	Fashion Buying/Management	3
FASH 173	Fashion Marketing on the Internet	1
FASH 175	Computer Fashion Design I: Adobe PhotoShop	3
FASH 176	Computer Fashion Design II: Adobe Illustrator	3
FASH 178	Computer Publishing and Portfolio	3
FASH 179	Fashion Photo Styling	3
CBTE 140	Microsoft Excel	2
CBTE 173	Introduction to E-Commerce	3
CBTE 180	Microsoft Office	3

**Total Units = 30**

**Recommended Electives:** Multimedia 101.

## Associate in Science Degree: Fashion

### Fashion Design

<b>Courses Required for the Major:</b>	<b>Units</b>	
FASH 105	Introduction to Fashion	3
FASH 120	Fashion History and Trends	3
FASH 125	Fashion Selection	3
FASH 130	Apparel Construction I	3
FASH 131	Apparel Construction II	3
FASH 140	Clothing Design and Flat Pattern I	3
FASH 142	Fashion Sketching	3
FASH 145	Clothing Design Through Draping	3
FASH 150	Advanced Fashion Design	3
FASH 155	Fashion Field Studies	1
FASH 175	Computer Fashion Design I: Adobe PhotoShop <b>or</b>	
FASH 176	Computer Fashion Design II: Adobe Illustrator	3
FASH 199A	Fashion Laboratory A	1
FASH 199B	Fashion Laboratory B	1
FASH 199C	Fashion Laboratory C	1
FASH 270	Work Experience	2-4
CONF 140	Textiles	3
CBTE 140	Microsoft Excel	2
ARTF 150A	Two-Dimensional Design	3

#### Select three units from the following:

FASH 121	Ethnic Costume: History and Design	1
FASH 135	Tailoring	3
FASH 141	Clothing Design and Flat Pattern II	3
FASH 160	Millinery Techniques	1
FASH 161	Millinery Flat Pattern Design	1
FASH 162	Millinery Blocking	1
FASH 170	Textile Design	1
FASH 171	Computer Flat Pattern Design	3

FASH 172	Computer Flat Pattern Design II	3
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**Total Units = 47-49**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Fashion 110, 121, 135, 141, 160, 161, 162, 170, 171, 172, 173, 175, 176, 178, 179, 190, 290.

## Associate in Science Degree: Fashion

### Fashion Merchandising

<b>Courses Required for the Major:</b>	<b>Units</b>	
FASH 105	Introduction to Fashion	3
FASH 108	Analysis, Evaluation, and Comparison of Ready-to-Wear Fashion	3
FASH 110	Fashion Buying/Management	3
FASH 112	Fashion Promotion	3
FASH 115	Visual Merchandising	3
FASH 125	Fashion Selection	3
FASH 155	Fashion Field Studies	1-4
FASH 178	Computer Publishing and Portfolio	3
FASH 190	Fashion Entrepreneurship	3
FASH 270	Work Experience	2-4
ARTF 150A	Two-Dimensional Design	3
CONF 140	Textiles	3
CBTE 140	Microsoft Excel	2

#### Select one course from:

MARK 105	Professional Selling <b>or</b>	
MARK 110	Principles of Retailing <b>or</b>	
MARK 130	Advertising Principles	3

**Total Units = 38-43**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Accounting 116A; Economics 120; Fashion 120, 130, 173, 175, 176, 290.

## Associate in Science Degree: Computer Fashion Technology

### Design

The Computer Fashion Technology: Design Associate of Science degree offers students courses that prepare them for work in the Fashion Design field. The emphasis on technological training provides students with a solid background that expands career options to include a growing number of fashion industry positions requiring strong computer and software skills. Students are trained to work with digital fashion design and illustration, computerized patternmaking, technical design, textile and graphic design, and Internet sales and marketing.

#### Courses Required for the Major: Units

**The Fashion Program recommends that students take FASH 130, 199A early in their course of study and take FASH 140 prior to taking Fashion 171.**

FASH 105	Introduction to Fashion	3
FASH 125	Fashion Selection	3
FASH 130	Apparel Construction I	3
FASH 140	Clothing Design and Flat Pattern I	3
FASH 171	Computer Flat Pattern Design	3
FASH 172	Computer Flat Pattern Design II	3
FASH 173	Fashion Marketing on the Internet	1
FASH 175	Computer Fashion Design I: Adobe PhotoShop	3
FASH 176	Computer Fashion Design II: Adobe Illustrator	3
FASH 178	Computer Publishing and Portfolio	3
FASH 199A	Fashion Laboratory A	1
FASH 270	Work Experience	2
ARTF 150A	Two-Dimensional Design	3
ARTF 150B	Beginning Graphic Design <b>or</b>	3
MULT 101	Introduction to Multimedia	4
CBTE 140	Microsoft Excel	2
CBTE 180	Microsoft Office	3
CONF 140	Textiles	3

**Total Units = 45-46**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Recommended Electives:** Fashion 108, 120.

## Associate in Science Degree: Computer Fashion Technology

### Merchandising

Computer Fashion Technology: Merchandising Associate of Science degree offers students courses that prepare them for work in Fashion Merchandising. The emphasis on software and technology provides students with a sound background that expands career options to include a growing number of fashion merchandising positions requiring strong computer and software skills. Students are trained to work in areas of fashion graphics, buying, marketing (traditional and Internet), promotion and publishing, business skills and general management for both small and large business operations.

#### Courses Required for the Major: Units

FASH 105	Introduction to Fashion	3
FASH 108	Analysis, Evaluation, and Comparison of Ready-to-Wear Fashion	3
FASH 110	Fashion Buying/Management <b>or</b>	
FASH 190	Fashion Entrepreneurship	3
FASH 125	Fashion Selection	3
FASH 173	Fashion Marketing on the Internet	1
FASH 175	Computer Fashion Design I: Adobe PhotoShop	3
FASH 176	Computer Fashion Design II: Adobe Illustrator	3
FASH 178	Computer Publishing and Portfolio	3
FASH 179	Fashion Photo Styling	3
FASH 270	Work Experience	2
CONF 140	Textiles	3
ARTF 150B	Beginning Graphic Design <b>or</b>	3
MULT 101	Introduction to Multimedia	4
CBTE 140	Microsoft Excel	2
CBTE 173	Introduction to E-Commerce	3
CBTE 180	Microsoft Office	3

**Total Units = 41-42**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Recommended Electives:** Art-Fine Art 150A, Computer Business Technology 162.

### **Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional



courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## French

Award Type	Units
<b>Associate in Arts Degree:</b>	
French	26*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

Program provides training in the fundamental skills of understanding, speaking, reading and writing the language, and increases one's familiarity with the French language. From a vocational standpoint, the curriculum will provide a student with skills useful in translating, interpreting, teaching, linguistic or literary research, music, foreign trade, or missionary work. The major requires 26 units in French, unless the student has completed two years of French in high school (with a "C" average or better). In this case, the department will determine the courses necessary to complete the requirements.

### Student Learning Outcomes

Students who complete the French Program will be able to:

- Communicate in a meaningful context in French.
- Analyze the nature of language through comparisons of the French language and their own.
- Demonstrate knowledge of and sensitivity to aspects of behavior, attitudes, and customs of France and other French speaking countries.
- Connect with the global community through study and acquisition of the French language.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: French

Courses Required for the Major:		Units
FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course in French	5
FREN 202	Fourth Course in French	5
FREN 210	The Grammar of Spoken French I	3
FREN 211	The Grammar of Spoken French II	3
<b>Total Units = 26</b>		

**Note:** Only one French (FREN) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Anthropology 103, 107; Chicano Studies 135, 138; Fine Art 109, 111; English 220, 221; Geography 102, History 115A, 115B, 120; Music 109; Philosophy 106, Vietnamese 201.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

### Fitness Specialist

See "Physical Education" on page 237.

### Food

See "Culinary Arts/Culinary Management in Hospitality" on page 168.

### Fitness and Nutrition

See "Nutrition" on page 233.

## Garden Design

See "Architecture" on page 136.

# Geographic Information Systems

Award Type	Units
<b>Certificate of Performance:</b>	
Geographic Information Systems Technician	13-16
<b>Associate in Arts Degree:</b>	
Geographic Information Systems	29-32*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

This is an interdisciplinary program that integrates the mapping sciences, geographic information systems technology, and spatial analysis in a core program related to computer supported data storage, management, and display functions. The program offers students the opportunity to develop the skills and abilities that are required of professionals in geographic information systems and related fields. The program is also relevant for professionals seeking to upgrade their computer mapping and spatial analysis skills.

### Program Goals

To prepare students for entry into a range of jobs in GIS-related fields as well as for career advancement.

### Program Emphasis

GIS technician training

### Career Options

GIS Technician, GIS Analyst, GIS Data Specialist, GIS Specialist, GIS Mapping Technician, Engineering Technician, GIS Mapping Assistant, GIS Application Specialist, Engineering Aide

### Student Learning Outcomes

Students who complete the Geographic Information Systems (GIS) Program will gain facility with:

- **Technological Awareness:** Students will be able to evaluate and apply appropriate geospatial technologies to support specific industry activities and solutions.
- **Critical Thinking:** Students will be able to analyze specific GIS problems or information needs and identify possible solutions, including determination of analytical approach, synthesis of information, resourcefulness, and troubleshooting.
- **Communication:** Students will be able to choose the appropriate mode of communication for a specific situation and then communicate ideas, concepts, and solutions through effective written and oral communication.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Performance: Geographic Information Systems Technician\*

Courses:	Units
GISG 110 Introduction to Mapping and Geographic Information Systems	3
GISG 111 Geographic Information Systems and Cartography	3
GISG 112 Spatial Analysis with Geographic Information Systems	3
GISG 113 Advanced Geographic Information Systems Applications <b>or</b>	
GISG 114 Spatial Databases in Geographic Information Systems	3
GISG 270 Geographic Information Systems Work Experience	1-4
<b>Total Units = 13-16</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Associate in Science Degree: Geographic Information Systems

Courses Required for the Major:	Units
GISG 110, Introduction to Mapping and Geographic Information Systems	3
GISG 111 Geographic Information Systems and Cartography	3

GISG 112	Spatial Analysis with Geographic Information Systems	3
GISG 113	Advanced Geographic Information Systems Applications <b>or</b>	
GISG 114	Spatial Databases in Geographic Information Systems	3
GISG 270	Geographic Information Systems Work Experience	1-4

**Select four units in a programming language:**

CISC 186	Visual Basic Programming	
CISC 190	Java Programming	
CISC 192	C/C++ Programming	
		4

**Select twelve units from:**

ANTH 103	Introduction to Cultural Anthropology	
ANTH 107	Introduction to Archaeology	
ANTH 115	Introduction to Archaeological Field Work	
ARCH 100	Architectural Drafting	
ARCH 101	Introduction to ArchiCAD	
ARCH 105	Introduction to AutoCAD	
ARCH 106	Advanced Computer Aided Drafting I	
ARCH 155	Environmental Design I: Creating Exterior Spaces	
ARCH 170	Architectural Design	
ARCH 190	Environmental Design II: Urban and Community Design	
ARCH 250	Site Engineering	
BIOL 100	Natural History - Environmental Biology	
CISC 186	Visual Basic Programming	
CISC 190	Java Programming	
CISC 192	C/C++ Programming	
CBTE 140	Microsoft Excel	
CBTE 140A	Introduction to Microsoft Excel	
CBTE 151	Introduction to Microsoft Access	
CBTE 161	Learning the Internet	
CBTE 162	Web Page Creation	
CBTE 170	Desktop Publishing	
GEOG 101	Physical Geography	
GEOG 102	Cultural Geography	
GEOG 104	World Regional Geography	
GEOG 154	Introduction to Urban Geography	
GEOL 100	General Geology	
MARK 100	Principles of Marketing	
MARK 110	Principles of Retailing	
MARK 130	Advertising Principles	
PHYN 100	Survey of Physical Science	
POLI 101	Introduction to Political Science	
POLI 102	The American Political System	
POLI 103	Comparative Politics	
REAL 101	Real Estate Principles	
REAL 105	Legal Aspects of Real Estate I	

REAL 125	Real Estate Economics	12
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**Total Units = 29-32**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to help meet the minimum of 60 units required for the degree.**

**Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Geography

Award Type	Units
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<b>Associate in Arts Degree:</b>	
Geography	19-21*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

**Description**

Geography is the study of cultural systems, the natural environment, and human-environment interactions. Geographers examine spatial distributions and patterns in a wide range of topics, such as urban sprawl, global climate change, the spread of religions, the growth of the global economy, migration trends, and the impact of environmental hazards. Depending on the course, geography is considered either a natural science (e.g., physical geography) or a social science (e.g., world regional geography). Regardless of area of emphasis, geographers understand the importance of scale (from local to global) when investigating real-world problems.

## Program Goals

The primary objectives of the Geography program include the following: fulfillment of general education requirements for the natural sciences and social sciences, completion of the Associate in Arts degree, preparation for transfer to four-year institutions, and completion of general education requirements for students enrolled in four-year institutions.

## Career Options

Most careers in Geography require education beyond the Associate degree and some require a graduate degree. Common career options in Geography include, but are not limited to, the following: Land use planner, demographer, water quality technician, spatial analyst, park biogeographer, and teacher.

## Student Learning Outcomes

Students who complete the Geography Program will have the ability to:

- Think critically in reading about topics in geography, thereby identifying problems, theses, arguments, evidence and conclusions;
- Think critically in writing about topics in geography, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions; and
- Think critically in speaking about topics in geography, thereby articulating problems, starting theses, posing arguments, explaining evidence, and communicating conclusions.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Geography

Courses Required for the Major:	Units
GEOG 101 Physical Geography	3
GEOG 101L Physical Geography Laboratory	1
GEOG 102 Cultural Geography	3
GEOG 104 World Regional Geography	3

### Select two courses from the following:

GEOG 154 Introduction to Urban Geography	3
------------------------------------------	---

GISG 104 Geographic Information Science and Spatial Reasoning	3
MATH 119 Elementary Statistics	3

### Select one course from the following:

ANTH 102 Introduction to Physical Anthropology	3
ANTH 103 Introduction to Cultural Anthropology	3
BIOL 101 Issues in Environmental Biology	4
BIOL 110 Introduction to Oceanography	3
CHEM 200 General Chemistry I - Lecture <b>and</b>	
CHEM 200L General Chemistry I - Laboratory	5
GEOG 154 Introduction to Urban Geography	3
GEOL 100 General Geology	3
GISG 104 Geographic Information Science and Spatial Reasoning	3
MATH 119 Elementary Statistics	3
MATH 121 Basic Techniques of Applied Calculus I	3
MATH 150 Calculus with Analytic Geometry I	5

**Total Units = 19-21**

**Note:** Only one Geography (GEOG) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Health Education

See "Nutrition" on page 233.

# Health Information Technology

Award Type	Units
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<b>Associate in Science Degree:</b> Health Information Technology	48*
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\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

This program prepares professionally trained Health Information Technicians to work in a variety of settings, such as: hospitals, managed care organizations, behavioral health facilities, consulting and law firms, ambulatory care clinics, home care providers, government agencies and insurance companies. Graduates of this two-year program are uniquely qualified to: ensure health information is complete and available to legitimate users, code and classify data for reimbursement, analyze information necessary for decision support, protect patient privacy and provide information security, enhance the quality and uses of data within healthcare, administer health information computer systems, comply with standards and regulations regarding health information, prepare health data for accreditation surveys, and analyze clinical data for research and public policy.

The program is accredited by the Commission on Accreditation for Health Informatics and Information Management (CAHIIM). Graduates of the program are eligible to write the national accreditation examination of the American Health Information Management Association, and upon passing this exam become designated as an RHIT (Registered Health Information Technician).

A grade of "C" or better must be maintained in all courses to continue in the program. Course repetition in this program is not permitted. This program is governed by the Allied Health Department Policies.

Interested persons should call the Special Programs Admissions Clerk in the Admissions Office 619-388-2684.

## Student Learning Outcomes

Students who complete the Health Information Technology Program will be able to:

- Apply all required health care documentation policies and procedures that ensure the highest quality of healthcare delivery.
- Utilize the evolving information technology in the completion of health information management processes.
- Ensure compliance with all payment systems, such as Medicare, Medicaid, managed care, and other sources of reimbursement.
- Produce data required for healthcare quality improvement, utilization management, risk management and other related activities.
- Protect the privacy, confidentiality, and security of health information as well as promote legal and ethical standards of practice for health information professionals.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Directed Clinical Practice Requirement

Students accepted into this program will be required to successfully complete DCP, clinically-based courses held in health care facilities. These facilities may require background checks, including fingerprinting and drug screening, as a condition of placement at the clinic.

Refusal to submit to a background check, or failure to meet clearance criteria established by the health care facility, may prevent placement in DCP courses and thus, it may not be possible to successfully complete the program.

Health care facilities also require adherence to strict standards of conduct. Facilities may refuse educational access to any person who does not adhere to the facility's standards of safety, health and ethical behavior. This may be cause of removal from the program.

## Associate in Science Degree: Health Information Technology

Courses Required for the Major:		Units
HEIT 105	Introduction to Health Information	3
HEIT 125	Basic Pharmacology for Allied Health	2

HEIT 155A	ICD Coding I	4
HEIT 155B	ICD Coding II	4
HEIT 155C	Current Procedural Terminology (CPT) Coding	3
HEIT 156	Hospital and Health Statistics	3
HEIT 205	Health Law, Accreditation and Licensing Standards	3
HEIT 258	Quality Assessment, Utilization Review & Risk Management	3
HEIT 260	Principles of Supervision and Administration	3
HEIT 261	Directed Clinical Practice A	2
HEIT 262	Directed Clinical Practice B	2
MEDA 55	Fundamentals Human Anatomy and Physiology	3
MEDA 110	Medical Terminology	3
MEDA 115	Pathophysiology	3
CISC 181	Principles of Information Systems	4
CBTE 180	Microsoft Office	3

**Total Units = 48**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Communication Studies 99, 103, 135.

## History

Award Type	Units
<b>Associate in Science Degree:</b>	
History	18*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

History is the study of human experience from the dawn of time to the present. It examines people, institutions, ideas and events of the past and the present. The primary objectives of the History program are: fulfillment of general education requirements for American Institutions, Humanities and Social Sciences; completion of the Associate in Arts degree; and preparation for transfer to four-year institutions and completion of general education requirements for students enrolled in four-year institutions.

### Program Emphasis

The courses in this program emphasize a number of student learning outcomes, primary being the development of critical thinking and communications skills to analyze problems, conceptualize theses, develop arguments, weigh evidence and derive conclusions; development of the ability to articulate the critical thinking outcomes through writing and/or speaking or by other modes of communication; and the development of an awareness of civic responsibilities and a thorough knowledge of global issues.

### Career Options

Most careers in History require education beyond the Associate degree and some require a graduate degree. This is not a comprehensive list, but some of the most common career options with History preparation include: archivist, business person, diplomatic corps, historian, journalist, lawyer, librarian, museum curator, park historian, professor, teacher and writer.

### Student Learning Outcomes

Students who complete the History Program will be able to:

- Think critically in reading about topics in history, thereby identifying problems, theses, arguments, evidence and conclusions;
- Think critically in writing about topics in history, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions; and
- Think critically in speaking about topics in history, thereby articulating problems, starting theses, posing arguments, explaining evidence, and communicating conclusions.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Associate in Arts Degree: History

Courses Required for the Major:		Units
HIST 109	History of the United States I	3
HIST 110	History of the United States II	3

**Select one six-unit course sequence from the following:**

HIST 100	World History I, <b>and</b>
HIST 101	World History II, <b>or</b>
HIST 105	Introduction to Western Civilization I <b>and</b>
HIST 106	Introduction to Western Civilization II

6

**Select additional six units from the following:**

HIST 100	World History I
HIST 101	World History II
HIST 105	Introduction to Western Civilization I
HIST 106	Introduction to Western Civilization II
HIST 115A	History of the Americas I
HIST 115B	History of the Americas II
HIST 120	Introduction to Asian Civilizations
HIST 121	Asian Civilizations in Modern Times
HIST 123	U.S. History from the Asian Pacific American Perspective
HIST 130	The Modern Middle East
HIST 131	Latin America Before Independence
HIST 132	Latin America Since Independence
HIST 141	Women in United States History I
HIST 142	Women in United States History II
HIST 150	Native Americans in United States History
HIST 151	Native Americans in United States History
HIST 154	Ancient Egypt
HIST 175	California History

6

**Total Units = 18**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

**Hospitality**

See "Culinary Arts/Culinary Management in Hospitality" on page 168.

See "Event Management" on page 178.

**Hotel Management**

Award Type	Units
<b>Certificate of Achievement:</b>	
Hotel Management	30
<b>Associate in Science Degree:</b>	
Hotel Management	35*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

**Description**

Hotel management covers a range of topics with a business focus aimed at student success in a variety of segments. Specific emphasis includes business priorities and aspects including, leadership and management specific to the industry, business communications, human resources, legal and legislative requirements for lodging operators, and sales and marketing as they relate to guest accommodation. This hospitality business focus prepares students for entry-level supervision and oversight in any of the myriad of segments. These segments include but are not limited to accommodation options in: hotels, resorts, timeshare/vacation ownership, condominiums, conference centers, camp and park lodges, bed and breakfast inns, private clubs, cruise lines, and casino hotels. Coursework is supplemented with participation in numerous field excursions and opportunities to hear from industry professionals and experts.

**Program Goals**

A core set of hotel management courses, centers on the hospitality industry. Students obtain an integrated and expansive view of all hospitality and accommodation segments for greater marketability and career opportunities.

**Program Emphasis**

The world of hospitality is unique because it offers opportunities in countless vocations. You could

manage departments in a hotel, plan new special effects at a theme park, hire and train employees at a resort, or select and buy china for a posh restaurant. You could forecast profitability of a new convention center, publicize a new attraction at a world-famous zoo, organize on-location catering for film crews, or lead port excursions for cruise passengers. And, you could become an entrepreneur and own your own franchise eatery or bed and breakfast establishment. This is one field of study that can open any career door you want. Hospitality is the largest private sector industry! Significant growth is expected to continue in these areas, and the industry is known to promote from within and move talented employees quickly up the career ladder. For most any profession you may have an interest in, a career path can be found in the hospitality industry where the focus is people, service and guest satisfaction.

### Career Options

Hotel positions are diverse, wide ranging, and include: guest service, finance, marketing, sales, human resources, customer service, purchasing, information technology, security, maintenance, engineering, accounting, food and beverage, banquets, catering, restaurants, nightclubs, concierge, bell staff, housekeeping, reservations, spas, fitness centers and swimming pool operations, meeting planning, and management opportunities in most every establishment. Two hundred different types of positions exist in the hotel industry, from entry-level to executive management. Opportunities abound in rooms management; food and beverage offerings in restaurants, coffee shops, catering and banquets; sales and marketing; event, meeting, and wedding planning; human resources, hiring, training, and coaching employees; housekeeping, security, engineering, maintenance; information technology; and accounting and finance. Choose your location for a hotel position, in high-rise city center hotels; beach, ski, or golf resorts; posh boutique hotels; airport properties, casino hotels that are local or from Las Vegas to Monte Carlo; quaint bed and breakfasts; or bustling convention hotels and conference centers. Properties exist with every imaginable amenity in full-service hotels, to extended-stay or all-suite facilities with more space and comfortable work and living environments, to economy lodging in motels. Vacation ownership or timeshare is also a concept that is greatly increasing in number. Opportunities in hospitality and tourism extend far beyond individual restaurants, recreation services, food service operations, hotels and lodging

facilities, and travel-related businesses. Worldwide experiences abound in resorts, country clubs, catering companies, cruise lines, casinos, convention centers, theme parks, airlines, and more.

### Student Learning Outcomes

Students who complete the Event and Hotel Management Program will become critical thinkers in an experiential learning environment, who are able to apply business principles and ethical decision making to any aspect of the hospitality and global tourism industry, and cultivate their ability to enhance opportunities for promotion into higher level positions. Students will be able to:

- Assess and apply the concepts of hospitality business management.
- Produce and present effective written and oral communication for the hospitality industry.
- Evaluate ethical leadership and differentiate situations calling for ethical decision making.
- Demonstrate and articulate a global perspective.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Achievement: Hotel Management

Courses Required for the Major:		Units
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 102	Hospitality Financial Reporting	3
HOSP 110	Lodging Management & Operations	3
HOSP 111	Food and Beverage Management	3
HOSP 115	Strategic Leadership in Hospitality	3
HOSP 120	Event & Hospitality Sales & Marketing	3
HOSP 130	Event & Hospitality Law	3
HOSP 150	Hospitality Human Resources	3
HOSP 151	Resort Management	2
HOSP 175	Event Convention Service & Catering Management	2
HOSP 270 <sup>1</sup>	Work Experience	2
<b>Total Units = 30</b>		

<sup>1</sup>Students may complete 150 hours of Departmental approved industry practical training in lieu of this credit requirement

**Recommended Electives:** Business 119, Computer Business Technology 140.



**Semester Sequence:****Courses Required for the Major:**

	<b>Units</b>
<b>First</b>	
HOSP 101 Introduction to Hospitality & Tourism	3
BUSE 119 Business Communications	3
CBTE 140 Microsoft Excel	2
HOSP 110 Lodging Management & Operations	3
HOSP 111 Food and Beverage Management	3
HOSP 115 Strategic Leadership in Hospitality	3
HOSP 120 Event & Hospitality Sales & Marketing	3

**Second**

HOSP 102 Hospitality Financial Reporting	3
HOSP 130 Event & Hospitality Law	3
HOSP 150 Hospitality Human Resources	3
HOSP 151 Resort Management	2
HOSP 175 Event Convention Service & Catering Management	2
HOSP 270 <sup>1</sup> Work Experience	2

<sup>1</sup>Students may complete 150 hours of Departmental approved industry practical training in lieu of this credit requirement.

**Associate in Science Degree:  
Hotel Management****Courses Required for the Major:**

	<b>Units</b>
HOSP 101 Introduction to Hospitality & Tourism	3
HOSP 102 Hospitality Financial Reporting	3
HOSP 110 Lodging Management & Operations	3
HOSP 111 Food and Beverage Management	3
HOSP 115 Strategic Leadership in Hospitality	3
HOSP 120 Event & Hospitality Sales & Marketing	3
HOSP 130 Event & Hospitality Law	3
HOSP 150 Hospitality Human Resources	3
HOSP 151 Resort Management	2
HOSP 175 Event Convention Service & Catering Management	2
ACCT 116A Financial Accounting	4
HOSP 270 <sup>1</sup> Work Experience	3

**Total Units = 35**

<sup>1</sup>Students may complete 250 hours of Departmental approved industry practical training in lieu of this credit requirement.

**Recommended Electives:** Business 119, Computer Business Technology 140.

**Semester Sequence:****Courses Required for the Major:**

	<b>Units</b>
<b>First</b>	
HOSP 101 Introduction to Hospitality & Tourism	3
HOSP 110 Lodging Management & Operations	3

HOSP 115 Strategic Leadership in Hospitality	3
----------------------------------------------	---

**Second**

HOSP 102 Hospitality Financial Reporting	3
HOSP 130 Event & Hospitality Law	3
HOSP 151 Resort Management	2
HOSP 175 Event Convention Service & Catering Management	2

**Third Semester**

HOSP 111 Food and Beverage Management	3
HOSP 120 Event & Hospitality Sales & Marketing	3
ACCT 116A Financial Accounting	4
HOSP 270 <sup>1</sup> Work Experience	3

**Fourth Semester**

HOSP 150 Hospitality Human Resources	3
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<sup>1</sup>Students may complete 250 hours of Departmental approved industry practical training in lieu of this credit requirement.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog.**

# Interior Design

**Award Type**

	<b>Units</b>
<b>Certificate of Achievement:</b>	
Interior Design	47-48

**Associate in Science Degree:**

Interior Design	60*
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\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

**Description**

The Interior Design Program offers a comprehensive and professionally relevant curriculum. It includes technical knowledge and skill, creative problem

solving, environmental applications, critical thinking and professional practice. The program is Accredited by the National Kitchen and Bath Association (NKBA). The AS degree is recommended for students planning to take the National Council for Interior Design Qualification (NCIDQ) exam or the California Council of Interior Design Certification (CCIDC) IDEX exam. For more information on the program, career applications, and suggested course sequence, visit our website at [www.sdmesa.edu/interior-design](http://www.sdmesa.edu/interior-design).

### Student Learning Outcomes

Students who complete the Interior Design Program will be able to:

- Formulate preliminary design concepts that are aesthetic, appropriate, functional and in accordance with codes and standards.
- Analyze and select appropriate interior building finishes and materials that address sustainability and green design issues.
- Prepare appropriate interior design construction drawings and specifications for kitchens and baths.
- Identify and apply American with Disabilities Act (ADA) requirements to selected commercial and residential design projects.
- Prepare three dimensional representations of design solutions using perspective sketches and model making skills.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Achievement: Interior Design

The Certificate of Achievement prepares students for entry-level positions in the Interior Design industry. This certificate program is a good option for students who have already completed general education requirements either at San Diego Mesa College or another institution.

Courses Required for the Major:		Units
INTE 101	Introduction to Interior Design	3
INTE 115	Elements and Principles of Interior Design	3
INTE 125	History of Decorative Arts	3
INTE 112A	Drafting for Interiors	3
CONF 140	Textiles	3

ARTF 152	Color Theory	3
INTE 105	Residential Design	3
INTE 112B	Perspective Drawing for Interiors	3
ARCH 105	Introduction to AutoCAD	2
INTE 110	Materials and Resources	3
INTE 145	Contemporary Housing	3
INTE 205	Non-Residential Space Planning	3
INTE 200	Advanced Residential Design: Kitchens and Baths	3
INTE 215	Environmental Lighting Design	3
INTE 130	Interior Design Professional Practice	3

#### Select one course from:

INTE 270 <sup>1</sup>	Work Experience	
ARCH 106	Advanced Computer Aided Drafting I	
INTE 210	Presentation and Color Rendering	
BLDC 120	Blueprint Reading	
BLDC 260	Building Codes and Zoning	
BUSE 140	Business Law and the Legal Environment	
BUSE 155	Managing the Small Business	
COMS 103	Oral Communication	

3-4

**Total Units = 47-48**

<sup>1</sup>INTE 270 (Work Experience) is recommended for all students. It is mandatory for students to complete INTE 270 with a qualified kitchen or bath designer to receive National Kitchen and Bath Association (NKBA) recognition.

### Associate in Science Degree: Interior Design

The Associate in Science Degree option provides the student with additional skills and knowledge of core competencies to meet professional standards. Interior Designers are expected to protect the health, safety and welfare of the public, so additional coursework in business and building codes is important. A well rounded graduate who gains insight through general education curriculum may find employment more readily.

The Interior Design Program recommends the following courses be taken in the given sequence for optimal student success.

Courses Required for the Major:		Units
INTE 101	Introduction to Interior Design	3
INTE 115	Elements and Principles of Interior Design	3
INTE 125	History of Decorative Arts	3
INTE 112A	Drafting for Interiors	3
CONF 140	Textiles	3

ARTF 152	Color Theory	3
INTE 105	Residential Design	3
INTE 112B	Perspective Drawing for Interiors	3
ARCH 105	Introduction to AutoCAD	2
INTE 110	Materials and Resources	3
INTE 145	Contemporary Housing	3
INTE 205	Non-Residential Space Planning	3
INTE 200	Advanced Residential Design: Kitchens and Baths	3
INTE 215	Environmental Lighting Design	3
INTE 130	Interior Design Professional Practice	3

**Select 16 units from the following:**

INTE 270 <sup>1</sup>	Work Experience	
ARCH 106	Advanced Computer Aided Drafting I	
INTE 210	Presentation and Color Rendering	
BLDC 120	Blueprint Reading	
BLDC 260	Building Codes and Zoning	
BUSE 140	Business Law and the Legal Environment	
BUSE 155	Managing the Small Business	
COMS 103	Oral Communication	
		16

**Total Units = 60**

<sup>1</sup>INTE 270 (Work Experience) is recommended for all students. It is mandatory for students to complete INTE 270 with a qualified kitchen or bath designer to receive National Kitchen and Bath Association (NKBA) recognition.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

Students who have completed the courses required for the major and the required electives, but have not met the 60 unit minimum required for the AS degree, must choose one of the following courses:

**Recommended Electives:** Architecture 101, 126, 127, 220, 221, 226; Art-Fine Art 107, 109, 110, 111, 150A, 151, 155A, 155B.

# Japanese

Award Type	Units
<b>Associate in Arts Degree:</b>	
Japanese	26*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

## Description

Program provides training in the fundamental skills of understanding, speaking, reading and writing the language, and increases one's familiarity with the Japanese language. From a vocational standpoint, the curriculum will provide a student with skills useful in translating, interpreting, teaching, linguistic or literary research, music, foreign trade, or missionary work. The major requires 26 units in Japanese, unless the student has completed two years of Japanese in high school (with a "C" average or better). In this case, the department will determine the courses necessary to complete the requirements.

## Student Learning Outcomes

Students who complete the Japanese Program will be able to:

- Communicate in a meaningful context in Japanese.
- Demonstrate understanding of the nature of language through comparisons of the Japanese language and their own.
- Demonstrate knowledge of and sensitivity to aspects of behavior, attitudes, and customs of Japan and other Asian speaking countries.
- Connect with the global community through study and acquisition of the Japanese language.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Japanese

Courses Required for the Major:		Units
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
JAPN 202	Fourth Course in Japanese	5
JAPN 210	Conversation and Composition in Japanese I	3
JAPN 211	Conversation and Composition in Japanese II	3

**Total Units = 26**

**Note:** Only one Japanese (JAPN) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Anthropology 103, 107; Chicano Studies 135, 138; Fine Art 109, 111; English 220, 221; Geography 102, History 115A, 115B, 120; Music 109; Philosophy 106, Vietnamese 201.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

### Landscape Architecture

See "Architecture" on page 136.

## Liberal Arts

Award Type	Units
<b>Certificate of Performance:</b> Honors Global Competencies	15-17

### Honors Global Competencies Certificate

#### Description

The Honors Global Competencies Certificate provides an interdisciplinary and systemic approach in order to prepare students for the highly diverse, technologically-rich, and multilingual global society in which we live. The Certificate offers students the opportunity to gain a global perspective through completion of coursework in intercultural competencies, communication skills, technology skills, and coping skills. This certificate helps students to transfer to four-year institutions in concert with the Honors designation. It prepares

students for study and work in the world as a whole in professional fields such as international studies, intercultural studies, language studies, international business, international law, political science, comparative literature, environmental studies, history, technology, social sciences, humanities, teaching, and more.

#### Program Emphasis

The Honors Global Competencies certificate has an international emphasis.

#### Career Options

The Honors Global Competencies certificate might lead to careers in the following areas: International relations, international business, politics, international law, technology professions, teaching, translating, travel and tourism, and intercultural communications, among others.

#### Student Learning Outcomes

Students who complete the Honors Global Competencies Certificate Program will be able to:

- Explain the interconnectedness of cultures and nations through time.
- Explore world ecologies and technologies.
- Analyze economic, political, and social systems.
- Study world languages, customs, and religions.
- Recognize, anticipate, and manage change.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Performance: Honors Global Competencies Certificate\*

The Honors Global Competencies Certificate offers you the opportunity to gain a global perspective through completion of coursework in intercultural competencies, communication skills, technology skills, and coping skills.

Courses Required for the Major		Units
ENGL 205	Critical Thinking and Intermediate Composition	3

**Select 3-5 units from the following introductory or higher level foreign languages:**

ARAB 101	First Course in Arabic (City)	5
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FREN 101	First Course in French	5
GERM 101	First Course in German	5
ITAL 101	First Course in Italian	5
JAPN 101	First Course in Japanese	5
RUSS 101	First Course in Russian	5
SPAN 101	First Course in Spanish	5
TAGA 101	First Course in Tagalog	5
VIET 101	First Course in Vietnamese	5

**Select 6 units from the following:**

ANTH 102	Introduction to Physical Anthropology	3
ANTH 103	Introduction to Cultural Anthropology	3
ARTF 110	Art History: Prehistoric to Gothic	3
ARTF 111	Art History: Renaissance to Modern	3
BIOL 101	Issues in Environmental Biology	4
COMS 180	Intercultural Communication	3
ECON 120	Principles of Macroeconomics	3
ENGL 101	Reading and Composition	3
ENGL 105	Composition and Literature	3
ENGL 220	Masterpieces of World Literature I: 1500 BCE - 1600 CE	3
ENGL 221	Masterpieces of World Literature II: 1600 - Present	3
HUMA 101	Introduction to the Humanities I	3
HUMA 102	Introduction to the Humanities II	3
HIST 100	World History I	3
HIST 101	World History II	3
MUSI 101	Music History I: Middle Ages to Mid 18th Century	3
MUSI 102	Music History II: Mid 18th - Early 20th Century	3
MUSI 109	World Music	3
PHIL 106	Asian Philosophy	3
PHIL 125	Philosophy of Women	3
POLI 101	Introduction to Political Science	3
POLI 103	Comparative Politics	3
POLI 140	Contemporary International Politics	3

**Select 3 units from the following:**

CHIL 101	Human Growth and Development	3
CISC 181	Principles of Information Systems	4
GEOG 102	Cultural Geography	3
HEAL 101	Health and Life-Style	3
PSYC 101	General Psychology	3

**Total Units = 15-17**

This certificate will be offered through the Honors Programs at City, Mesa, and Miramar Colleges. All coursework except for foreign language must be done as an honors class or as an honors contract.

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Liberal Arts and Sciences

Award Type	Units
<b>Associate in Arts Degree:</b>	
Emphasis in Arts Studies—Art	18*
Emphasis in Arts Studies—Dance	18*
Emphasis in Arts Studies—Drama	18*
Emphasis in Arts Studies—Music	18*
Emphasis in Business Studies	18*
Emphasis in Language Arts and Humanities Studies—Chinese	18*
Emphasis in Language Arts and Humanities Studies—Communications and Journalism	18*
Emphasis in Language Arts and Humanities Studies—English	18*
Emphasis in Language Arts and Humanities Studies—French	18*
Emphasis in Language Arts and Humanities Studies—German	18*
Emphasis in Language Arts and Humanities Studies—Italian	18*
Emphasis in Language Arts and Humanities Studies—Japanese	18*
Emphasis in Language Arts and Humanities Studies—Latin	18*
Emphasis in Language Arts and Humanities Studies—Philosophy	18*
Emphasis in Language Arts and Humanities Studies—Russian	18*
Emphasis in Language Arts and Humanities Studies—Spanish	18*
Emphasis in Language Arts and Humanities Studies—Tagalog	18*

Emphasis in Language Arts and Humanities Studies—Vietnamese	18*
Emphasis in Mathematics and Pre-Engineering Studies—Mathematics	18*
Emphasis in Mathematics and Pre-Engineering Studies—Computer Science	18*
Emphasis in Mathematics and Pre-Engineering Studies—Engineering	18*
Emphasis in Science Studies—Biological Sciences	18*
Emphasis in Science Studies—Physical Sciences—Chemistry	18*
Emphasis in Science Studies—Physical Sciences—Physics	18-20*
Emphasis in Science Studies—Physical Sciences—Earth Sciences	18-19*
Emphasis in Science Studies—Physical Sciences—Pre-Nursing	20*
Emphasis in Science Studies—Physical Sciences—Kinesiology and Nutrition	18*
Emphasis in Science Studies—Physical Sciences—Psychology	18*
Emphasis in Social and Behavioral Sciences—Anthropology	18*
Emphasis in Social and Behavioral Sciences—Child Development	18*
Emphasis in Social and Behavioral Sciences—Economics	18*
Emphasis in Social and Behavioral Sciences—Human Development	18*
Emphasis in Social and Behavioral Sciences—History	18*
Emphasis in Social and Behavioral Sciences—Political Science	18*
Emphasis in Social and Behavioral Sciences—Psychology	18*
Psychology for Transfer	18-23*
Sociology for Transfer	18*
Emphasis in Social and Behavioral Sciences—Social Sciences	18*
Emphasis in Social and Behavioral Sciences—Sociology	18*
Emphasis in Social and Behavioral Sciences—Women’s Studies	18*

\*plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

**Description**

The Liberal Arts and Sciences Degree is designed to enable students to complete the requirements for an Associate in Arts Degree prior to transfer to the

University of California, California State University or an independent/private college or university.

This degree is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this degree should be selected with the assistance of a San Diego Mesa College counselor. Completion of the Liberal Arts and Sciences degree does not guarantee acceptance into a four year institution nor into a major.

**Requirements**

To meet the Liberal Arts and Sciences degree requirements, a student must complete:

**1. One of the following general education patterns:**

- San Diego Community College District General Education option may be appropriate for students transferring to a private/ independent or out of state university or to a high-unit major. Students selecting this option should meet with a counselor to determine the appropriate General Education courses for their individual transfer goals. See San Diego Mesa College catalog page 85.
- CSU General Education - Breadth (CSU GE Pattern). This GE pattern will fulfill all lower-division general education requirements at all CSU campuses. See San Diego Mesa College catalog page 117.
- Intersegmental General Education Transfer Curriculum (IGETC) pattern. This GE pattern will fulfill all lower-division general education requirements at all CSU campuses, most UC campuses/majors and some independent/ private colleges and universities. See San Diego Mesa College catalog page 109.

It is strongly recommended that students consult with a counselor to determine which General Education option is most appropriate for their individual education goals.

**2. A minimum of 18 units in an Area of Emphasis. The Areas of Emphasis include:**

- Arts Studies
- Business Studies
- Language Arts and Humanities Studies

- Mathematics and Pre-Engineering Studies
  - Science Studies
  - Social and Behavioral Science Studies
3. A minimum of 60 transferable units to a California State University, University of California, or a private/independent college or university.
  4. San Diego Community College District competencies in reading, written expression and mathematics.

**NOTE:** There are several transfer majors that require a very high amount of units in preparation for the major. Students preparing for such majors are advised to not complete a transfer GE pattern. The universities want such students to incorporate GE courses throughout their junior and senior years. Examples of high unit majors are found in Computer Science, Engineering and Mathematics. For example: The Computer Science and Engineering major at UCLA requires a total of 64 units in preparation for the major. Of the 64 units, only 10 units could apply toward a transfer GE pattern. The Mathematics/ Applied Science major at UCLA requires a total of 68 units in preparation for the major. Of the 68 units, only 15 units could apply toward a transfer GE pattern. Therefore, the SDCCD pattern would be best for such students to follow in obtaining the AA. In addition, the SDCCD pattern is useful for students who transfer to institutions other than the CSU or UC.

## Arts Studies

The Arts Studies emphasis is intended to help students prepare for possible majors within an art-related major. Common university majors in this field include: Applied Design, Art, Art History, Graphic Design, Music, Interior Design, Multimedia, Painting and Printmaking, Sculpture, Studio Arts, Television-Film and New Media Production, Theatre Arts, Theatre Arts and Dance, and Visual and Performing Arts. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

## Student Learning Outcomes

Students who complete the Liberal Arts and Sciences with an emphasis in Art Studies Program will gain facility with:

- **Critical Thinking:** Students will have the ability to analyze problems, conceptualize theses, develop arguments, weigh evidence, and derive conclusions.
- **Communications Skills:** Students will have the ability to articulate the critical thinking outcomes in writing and/or speaking or by other modes of communication.
- **Self-awareness and Interpersonal Skills:** Students will have the ability to analyze one's own actions, to see the perspectives of other persons, and to work effectively with others in groups.
- **Personal Actions and Civic Responsibility:** Students will have the ability to understand one's role in society, take responsibility for one's own actions, make ethical decisions in complex situations, and participate actively in a diverse democracy.
- **Global Awareness:** Students will have the ability to articulate similarities and contrasts among cultures, times and environments, describe and explain cultural pluralism and knowledge of global issues.
- **Technological Awareness:** Students will have the ability to understand and explain or analyze the applications of technology and to use technology in ways appropriate to the situation. This outcome includes information competency skills.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Arts Studies—Art

The Arts Studies—Art emphasis is intended to help students prepare for possible majors within an art-related major. Common university majors in this field include: Applied Design, Art, Art History, Painting and Printmaking, Sculpture, Studio Arts. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions

and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (9 units)</b>		
ARTF 110	Art History: Prehistoric to Gothic	3
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
<b>Select a minimum of 9 units</b>		
ARTF 100	Art Orientation	
ARTF 109	History of Modern Art	
ARTF 113	Arts of Africa, Oceania, and the Americas	
ARTF 150B	Beginning Graphic Design	
ARTF 151	Three-Dimensional Design	
ARTF 155A	Freehand Drawing I	
ARTF 155B	Freehand Drawing II	
ARTF 165A	Composition in Painting I	
ARTF 165B	Composition in Painting II	
ARTF 165C	Composition in Painting III	
ARTF 165D	Composition in Painting IV	
ARTF 174A	Book Arts I	
ARTF 175A	Sculpture I	
ARTF 175B	Sculpture II	
ARTF 175C	Sculpture III	
ARTF 190A	Black and White Art Photography	
ARTF 198A	Introduction to Printmaking I	
ARTF 198B	Introduction to Printmaking II	
ARTF 198C	Introduction to Printmaking III	
ARTF 210A	Life Drawing I	
ARTF 210B	Life Drawing II	
ARTF 210C	Life Drawing III	
ARTF 220A	Life Sculpture I	
ARTF 220B	Life Sculpture II	
ARTF 220C	Life Sculpture III	
ARTF 281	Issues in Visual Art (Lab)	
		9
<b>Total Units = 18</b>		

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Arts Studies—Dance

The Arts Studies—Dance emphasis is intended to help students prepare for possible majors within a dance related major. Common university majors in this field include: Theatre Arts and Dance, and Visual and Performing Arts. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation

requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (5 units)</b>		
DANC 181	Introduction to Dance	3
DANC 253	Choreography	2
<b>Select 5 units of activity courses</b>		
DANC 110	Ballet	0.5-1
DANC 120	American Street Dance	0.5-1
DANC 135	Jazz Dance	0.5-1
DANC 140	Modern Dance I	0.5-1
<b>Select a minimum of 8 units</b>		
DANC 111	Ethnic Dance Forms	
DANC 130	Dance Repertoire	
DANC 177	Dance Improvisation	
DANC 178	Advanced Contemporary Dance	
DANC 179	Advanced Classical Dance	
DANC 261	Dance Performance	
DANC 271	Dance Production	
		8
<b>Total Units = 18</b>		

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Arts Studies—Drama

The Arts Studies—Drama emphasis is intended to help students prepare for possible majors within performing arts related major. Common university majors in this field include: Theatre Arts and Visual and Performing Arts. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (9 units)</b>		
DRAM 105	Introduction to Dramatic Arts	3
DRAM 132	Beginning Acting	3
DRAM 133	Intermediate Acting	3
<b>Select a minimum of 9 units</b>		
COMS 101	Voice and Articulation	
DRAM 100A	Fundamentals of Performance and Production I	



DRAM 100B	Fundamentals of Performance and Production II	
DRAM 122	Makeup for the Stage	
DRAM 151	Cinema as Art and Communication II	
DRAM 150	Cinema as Art and Communication I	
DRAM 200A	Fundamentals of Performance and Production III	
DRAM 200B	Fundamentals of Performance and Production IV	
DRAM 250	Rehearsal, Production and Performance	
DRAM 251	Musical Comedy Rehearsal, Production and Performance	
DRAM 268	Experimental Theatre	
		9
<b>Total units = 18</b>		

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Arts Studies—Music

The Arts Studies—Music emphasis is intended to help students prepare for possible majors within music performing arts-related major. Common university majors in this field include: Music Performance and Music Education. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (8 units)</b>		
MUSI 100	Introduction to Music	3
MUSI 115A	Class Piano I	1
MUSI 115B	Class Piano II	1
MUSI 150A	Basic Musicianship	3
<b>Select a minimum of 10 units</b>		
MUSI 123	Recital Hour	
MUSI 190	The Electronic Music Studio	
MUSI 202	Computer Music	
MUSI 252	Concert Jazz Band	
MUSI 268A	Beginning Ear Training Laboratory I	
MUSI 268B	Beginning Ear Training Laboratory II	
MUSI 296	Individualized Instruction in Music	
		10
<b>Total Units = 18</b>		

## Business Studies

The Business Studies emphasis is intended to help students prepare for possible majors within a business-related major. Common university majors in this field include: Business Administration, Business Economics, Economics, Economics and International Studies, Economics and Mathematics, Hospitality and Tourism, International Business, International Development Studies, Management Science, Public Administration, and Recreation Administration. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

### Student Learning Outcomes

Students who complete the Liberal Arts and Sciences with an emphasis in Business Studies Program will gain facility with:

- **Communication:** Students will be able to articulate and explain critical thinking outcomes in writing and speaking, as well as by other contemporary recognized modes of business communication.
- **Self-awareness and Interpersonal Skills:** Students will recognize and respect the business opinions and perspectives of others, and they will be able to work effectively with superiors, peers, and subordinates in organized group settings.
- **Personal Actions and Civic Responsibility:** Students will be able to analyze and accept responsibility for their own actions and make ethical decisions in the business environment.
- **Global Awareness:** Students will be able to identify and describe global business issues.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Business Studies

The Business Studies—Business emphasis is intended to help students prepare for possible majors within a business-related major. Common

university majors in this field include: Business Administration, Business Economics, International Business, International Development Studies, Management Science, Public Administration and Recreation Administration. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

**Required Courses:** **Units**

**Core courses (14 Units)**

ACCT 116A	Financial Accounting	4
ACCT 116B	Managerial Accounting	4
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3

**Select a minimum of 4 units**

BUSE 100	Introduction to Business	
BUSE 119	Business Communications	
BUSE 140	Business Law and the Legal Environment	
CHIC 141A	United States History from a Chicano Perspective	
CHIC 141B	United States History from a Chicano Perspective	
CISC 181	Principles of Information Systems	
HIST 100	World History I	
HIST 101	World History II	
HIST 105	Introduction to Western Civilization I	
HIST 106	Introduction to Western Civilization II	
HIST 109	History of the United States I	
HIST 110	History of the United States	
HIST 115A	History of the Americas I	
HIST 115B	History of the Americas II	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian civilizations in Modern Times	
HOSP 101	Introduction to Hospitality & Tourism	
MATH 116	College and Matrix Algebra	
MATH 119	Elementary Statistics or	
PSYC 258	Behavioral Science Statistics	
MATH 121	Basic Techniques of Applied Calculus I	
MATH 122	Basic Techniques of Applied Calculus II	
MATH 150	Calculus with Analytic Geometry I	
POLI 102	The American Political System	
PSYC 101	General Psychology	
SOCO 101	Principles of Sociology	
Any Foreign Language Course, Including AMSL		4

**Total Units = 18**

## Language Arts and Humanities Studies

The Language Arts and Humanities Studies emphasis is intended to help students prepare for possible majors within a language arts and humanities-related major. Common university majors in this field include: Communication, English, Foreign Language (all), Journalism, Linguistics, Literature, Classics, Humanities, Philosophy, Religious Studies, and Writing. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

### Student Learning Outcomes

Students who complete the Liberal Arts and Sciences with an emphasis in Language Arts and Humanities Studies Program will gain facility with:

- **Critical Thinking:** Students will have the ability to analyze problems, conceptualize theses, develop arguments, weigh evidence, and derive conclusions.
- **Communications Skills:** Students will have the ability to articulate the critical thinking outcomes in writing and/or speaking or by other modes of communication.
- **Self-awareness and Interpersonal Skills:** Students will have the ability to analyze one's own actions, to see the perspectives of other persons, and to work effectively with others in groups.
- **Personal Actions and Civic Responsibility:** Students will have the ability to understand one's role in society, take responsibility for one's own actions, make ethical decisions in complex situations, and participate actively in a diverse democracy.
- **Global Awareness:** Students will have the ability to articulate similarities and contrasts among cultures, times and environments, describe and explain cultural pluralism and knowledge of global issues.
- **Technological Awareness:** Students will have the ability to explain the applications of technology and to use technology in ways

appropriate to the situation. This outcome includes information competency skills.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—Chinese

The Language Arts and Humanities Studies—Chinese emphasis is intended to help students prepare for possible majors within a language arts and Chinese language-related major. Common university majors in this field include: Foreign Language (all) and Chinese language. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

Required Courses:		Units
<b>Core courses (15 units)</b>		
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
<b>Select a minimum of 3 units</b>		
CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
COMS 135	Interpersonal Communication	
COMS 170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	
FREN 101	First Course in French	
FREN 102	Second Course in French	
FREN 201	Third Course in French	
GERM 101	First Course in German	
GERM 102	Second Course in German	
GERM 201	Third Course in German	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian Civilizations in Modern Times	
ITAL 101	First Course in Italian	
ITAL 102	Second Course in Italian	
ITAL 201	Third Course in Italian	
JAPA 102	Second Course in Japanese	
JAPA 201	Third Course in Japanese	

JAPN 101	First Course in Japanese
JOUR 202	Introduction to Mass Communication
LATI 101	First Course in Latin
LATI 102	Second Course in Latin
LATI 201	Third Course in Latin
RUSS 101	First Course in Russian
RUSS 102	Second Course in Russian
RUSS 201	Third Course in Russian
SPAN 101	First Course in Spanish
SPAN 102	Second Course in Spanish
SPAN 201	Third Course in Spanish
TAGA 101	First Course in Tagalog
TAGA 102	Second Course in Tagalog
TAGA 201	Third Course in Tagalog
VIET 101	First Course in Vietnamese
VIET 102	Second Course in Vietnamese
VIET 201	Third Course in Vietnamese

3

Total Units = 18

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies— Communications and Journalism

The Language Arts and Humanities Studies—Communications and Journalism emphasis is intended to help students prepare for possible majors within a communications and journalism-related major. Common university majors in this field include: Communication, Journalism, and Writing. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

Required Courses:		Units
<b>Core courses (6 units)</b>		
COMS 160	Argumentation	3
JOUR 202	Introduction to Mass Communication	3
<b>Select a minimum of 12 units</b>		
ECON 120	Principles of Macroeconomics	
JOUR 200	Introduction to Newswriting and Reporting	
POLI 101	Introduction to Political Science	
POLI 102	The American Political System	

COMS 104	Advanced Public Communication	12
<b>Total Units = 18</b>		

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—English

The Language Arts and Humanities Studies—English emphasis is intended to help students prepare for possible majors within a English-related major. Common university majors in this field include: English, Linguistics, Literature, Classics, and Writing. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (6 units)</b>		
ENGL 215	English Literature I: 800–1799	3
ENGL 216	English Literature II: 1800–Present	3
<b>Select a minimum of 12 units</b>		
ENGL 208	Introduction to Literature	
ENGL 210	American Literature I	
ENGL 211	American Literature II	
ENGL 220	Masterpieces of World Literature I: 1500 BCE–1600 CE	
ENGL 221	Masterpieces of World Literature II: 1600–Present	
ENGL 245	Writing Creative Nonfiction	
ENGL 247	Writing Seminar—Poetry	
ENGL 249	Introduction to Creative Writing	
		12
<b>Total Units = 18</b>		

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—French

The Language Arts and Humanities Studies—French emphasis is intended to help students prepare for possible majors within a language arts and French language-related major. Common university majors in this field include: Foreign Language (all) and French language. This degree is designed to accommodate the differing requirements of

a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (15 units)</b>		
FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course In French	5
<b>Select a minimum of 3 units</b>		
CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
CHIN 101	First Course in Mandarin Chinese	
CHIN 102	Second Course in Mandarin Chinese	
CHIN 201	Third Course in Mandarin Chinese	
COMS 135	Interpersonal Communication	
COMS 170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	
FREN 202	Fourth Course in French	
FREN 210	The Grammar of Spoken French I	
FREN 211	The Grammar of Spoken French II	
GERM 101	First Course in German	
GERM 102	Second Course in German	
GERM 201	Third Course in German	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian Civilizations in Modern Times	
ITAL 101	First Course in Italian	
ITAL 102	Second Course in Italian	
ITAL 201	Third Course in Italian	
JAPA 102	Second Course in Japanese	
JAPA 201	Third Course in Japanese	
JAPN 101	First Course in Japanese	
JOUR 202	Introduction to Mass Communication	
LATI 101	First Course in Latin	
LATI 102	Second Course in Latin	
LATI 201	Third Course in Latin	
RUSS 101	First Course in Russian	
RUSS 102	Second Course in Russian	
RUSS 201	Third Course in Russian	
SPAN 101	First Course in Spanish	
SPAN 102	Second Course in Spanish	
SPAN 201	Third Course in Spanish	
TAGA 101	First Course in Tagalog	
TAGA 102	Second Course in Tagalog	
TAGA 201	Third Course in Tagalog	
VIET 101	First Course in Vietnamese	
VIET 102	Second Course in Vietnamese	

VIET 201	Third Course in Vietnamese	3
		<b>Total Units = 18</b>

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—German

The Language Arts and Humanities Studies—German emphasis is intended to help students prepare for possible majors within a language arts and German language-related major. Common university majors in this field include: Foreign Language (all) and German language. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

#### Required Courses: Units

<b>Core courses (15 units)</b>		
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5

#### Select a minimum of 3 units

CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
CHIN 101	First Course in Mandarin Chinese	
CHIN 102	Second Course in Mandarin Chinese	
CHIN 201	Third Course in Mandarin Chinese	
COMS 135	Interpersonal Communication	
COMS 170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	
FREN 101	First Course in French	
FREN 102	Second Course in French	
FREN 201	Third Course in French	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian Civilizations in Modern Times	
ITAL 101	First Course in Italian	
ITAL 102	Second Course in Italian	
ITAL 201	Third Course in Italian	
JAPA 102	Second Course in Japanese	
JAPA 201	Third Course in Japanese	
JAPN 101	First Course in Japanese	
JOUR 202	Introduction to Mass Communication	
LATI 101	First Course in Latin	

LATI 102	Second Course in Latin	
LATI 201	Third Course in Latin	
RUSS 101	First Course in Russian	
RUSS 102	Second Course in Russian	
RUSS 201	Third Course in Russian	
SPAN 101	First Course in Spanish	
SPAN 102	Second Course in Spanish	
SPAN 201	Third Course in Spanish	
TAGA 101	First Course in Tagalog	
TAGA 102	Second Course in Tagalog	
TAGA 201	Third Course in Tagalog	
VIET 101	First Course in Vietnamese	
VIET 102	Second Course in Vietnamese	
VIET 201	Third Course in Vietnamese	3
		<b>Total Units = 18</b>

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—Italian

The Language Arts and Humanities Studies—Italian emphasis is intended to help students prepare for possible majors within a language arts and Italian language-related major. Common university majors in this field include: Foreign Language (all) and Italian language. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

#### Required Courses: Units

<b>Core courses (15 units)</b>		
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5

#### Select a minimum of 3 units

CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
CHIN 101	First Course in Mandarin Chinese	
CHIN 102	Second Course in Mandarin Chinese	
CHIN 201	Third Course in Mandarin Chinese	
COMS 135	Interpersonal Communication	
COMS 170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	

FREN 101	First Course in French	
FREN 102	Second Course in French	
FREN 201	Third Course in French	
GERM 101	First Course in German	
GERM 102	Second Course in German	
GERM 201	Third Course in German	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian Civilizations in Modern Times	
JAPN 101	First Course in Japanese	
JAPN 102	Second Course in Japanese	
JAPN 201	Third Course in Japanese	
JOUR 202	Introduction to Mass Communication	
LATI 101	First Course in Latin	
LATI 102	Second Course in Latin	
LATI 201	Third Course in Latin	
RUSS 101	First Course in Russian	
RUSS 102	Second Course in Russian	
RUSS 201	Third Course in Russian	
SPAN 101	First Course in Spanish	
SPAN 102	Second Course in Spanish	
SPAN 201	Third Course in Spanish	
TAGA 101	First Course in Tagalog	
TAGA 102	Second Course in Tagalog	
TAGA 201	Third Course in Tagalog	
VIET 101	First Course in Vietnamese	
VIET 102	Second Course in Vietnamese	
VIET 201	Third Course in Vietnamese	

3

**Total Units = 18**

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—Japanese

The Language Arts and Humanities Studies—Japanese emphasis is intended to help students prepare for possible majors within a language arts and Japanese language-related major. Common university majors in this field include: Foreign Language (all) and Japanese language. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

Required Courses:		Units
<b>Core courses (15 units)</b>		
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5

JAPN 201	Third Course in Japanese	5
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#### Select a minimum of 3 units

CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
CHIN 101	First Course in Mandarin Chinese	
CHIN 102	Second Course in Mandarin Chinese	
CHIN 201	Third Course in Mandarin Chinese	
COMS 135	Interpersonal Communication	
COMS 170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	
FREN 101	First Course in French	
FREN 102	Second Course in French	
FREN 201	Third Course in French	
GERM 101	First Course in German	
GERM 102	Second Course in German	
GERM 201	Third Course in German	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian Civilizations in Modern Times	
ITAL 101	First Course in Italian	
ITAL 102	Second Course in Italian	
ITAL 201	Third Course in Italian	
JAPN 202	Fourth Course in Japanese	
JOUR 202	Introduction to Mass Communication	
LATI 101	First Course in Latin	
LATI 102	Second Course in Latin	
LATI 201	Third Course in Latin	
RUSS 101	First Course in Russian	
RUSS 102	Second Course in Russian	
RUSS 201	Third Course in Russian	
SPAN 101	First Course in Spanish	
SPAN 102	Second Course in Spanish	
SPAN 201	Third Course in Spanish	
TAGA 101	First Course in Tagalog	
TAGA 102	Second Course in Tagalog	
TAGA 201	Third Course in Tagalog	
VIET 101	First Course in Vietnamese	
VIET 102	Second Course in Vietnamese	
VIET 201	Third Course in Vietnamese	

3

**Total Units = 18**

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—Latin

The Language Arts and Humanities Studies—Latin emphasis is intended to help students prepare for possible majors within a language arts and Latin

language-related major. Common university majors in this field include: Foreign Language (all) and Latin language. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

**Required Courses:** **Units**

**Core courses (15 units)**

LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5

**Select a minimum of 3 units**

CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
CHIN 101	First Course in Mandarin Chinese	
CHIN 102	Second Course in Mandarin Chinese	
CHIN 201	Third Course in Mandarin Chinese	
COMS 135	Interpersonal Communication	
COMS 170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	
FREN 101	First Course in French	
FREN 102	Second Course in French	
FREN 201	Third Course in French	
GERM 101	First Course in German	
GERM 102	Second Course in German	
GERM 201	Third Course in German	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian Civilizations in Modern Times	
ITAL 101	First Course in Italian	
ITAL 102	Second Course in Italian	
ITAL 201	Third Course in Italian	
JAPN 101	First Course in Japanese	
JAPN 102	Second Course in Japanese	
JAPN 201	Third Course in Japanese	
JOUR 202	Introduction to Mass Communication	
RUSS 101	First Course in Russian	
RUSS 102	Second Course in Russian	
RUSS 201	Third Course in Russian	
SPAN 101	First Course in Spanish	
SPAN 102	Second Course in Spanish	
SPAN 201	Third Course in Spanish	
TAGA 101	First Course in Tagalog	
TAGA 102	Second Course in Tagalog	
TAGA 201	Third Course in Tagalog	
VIET 101	First Course in Vietnamese	
VIET 102	Second Course in Vietnamese	

VIET 201	Third Course in Vietnamese	3
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**Total Units = 18**

**Associate in Arts Degree:  
Liberal Arts and Sciences with an  
Emphasis in Language Arts and  
Humanities Studies—Philosophy**

The Language Arts and Humanities Studies—Philosophy emphasis is intended to help students prepare for possible majors within a philosophy-related major. Common university majors in this field include: Humanities, Philosophy, and Religious Studies. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

**Required Courses:** **Units**

**Core courses (6 units)**

PHIL 102A	Introduction To Philosophy: Reality and Knowledge	3
PHIL 102B	Introduction To Philosophy: Values	3

**Select a minimum of 12 units**

PHIL 100	Logic and Critical Thinking	
PHIL 101	Symbolic Logic	
PHIL 103	Historical Introduction To Philosophy	
PHIL 104A	History Of Western Philosophy	
PHIL 104B	History of Western Philosophy	
PHIL 107	Reflections on Human Nature	
PHIL 110	Philosophy of Religion	
PHIL 111	Philosophy In Literature	
PHIL 112	Philosophy of Science	
PHIL 125	Philosophy of Science	
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	
PHIL 205	Critical Thinking and Writing in Philosophy	
HUMA 101	Introduction to the Humanities I	
HUMA 103	Introduction to the New Testament	
HUMA 104	Introduction to the Old Testament	
HUMA 201	Mythology	

12

**Total Units = 18**

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—Russian

The Language Arts and Humanities Studies—Russian emphasis is intended to help students prepare for possible majors within a language arts and Russian language-related major. Common university majors in this field include: Foreign Language (all) and Russian language. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (15 units)</b>		
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
<b>Select a minimum of 3 units</b>		
CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
CHIN 101	First Course in Mandarin Chinese	
CHIN 102	Second Course in Mandarin Chinese	
CHIN 201	Third Course in Mandarin Chinese	
COMS135	Interpersonal Communication	
COMS170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	
FREN 101	First Course in French	
FREN 102	Second Course in French	
FREN 201	Third Course in French	
GERM 101	First Course in German	
GERM 102	Second Course in German	
GERM 201	Third Course in German	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian Civilizations in Modern Times	
ITAL 101	First Course in Italian	
ITAL 102	Second Course in Italian	
ITAL 201	Third Course in Italian	
JAPN 101	First Course in Japanese	
JAPN 102	Second Course in Japanese	
JAPN 201	Third Course in Japanese	
JOUR 202	Introduction to Mass Communication	
LATI 101	First Course in Latin	
LATI 102	Second Course in Latin	

LATI 201	Third Course in Latin	
SPAN 101	First Course in Spanish	
SPAN 102	Second Course in Spanish	
SPAN 201	Third Course in Spanish	
TAGA 101	First Course in Tagalog	
TAGA 102	Second Course in Tagalog	
TAGA 201	Third Course in Tagalog	
VIET 101	First Course in Vietnamese	
VIET 102	Second Course in Vietnamese	
VIET 201	Third Course in Vietnamese	

3

**Total Units = 18**

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—Spanish

The Language Arts and Humanities Studies—Spanish emphasis is intended to help students prepare for possible majors within a language arts and Spanish language-related major. Common university majors in this field include: Foreign Language (all) and Spanish language. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (15 units)</b>		
SPAN 100	First/Second Course in Spanish (Accelerated) <b>or</b>	
SPAN 101	First Course in Spanish <b>and</b>	
SPAN 102	Second Course in Spanish	10
SPAN 201	Third Course in Spanish <b>or</b>	
SPAN 215	Spanish for Spanish Speakers I	5
<b>Select a minimum of 3 units</b>		
CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
CHIN 101	First Course in Mandarin Chinese	
CHIN 102	Second Course in Mandarin Chinese	
CHIN 201	Third Course in Mandarin Chinese	
COMS 135	Interpersonal Communication	
COMS 170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	
FREN 101	First Course in French	



FREN 102	Second Course in French
FREN 201	Third Course In French
GERM 101	First Course in German
GERM 102	Second Course in German
GERM 201	Third Course in German
HIST 120	Introduction to Asian Civilizations
HIST 121	Asian Civilizations in Modern Times
ITAL 101	First Course in Italian
ITAL 102	Second Course in Italian
ITAL 201	Third Course in Italian
JAPA 102	Second Course in Japanese
JAPA 201	Third Course in Japanese
JAPN 101	First Course in Japanese
JOUR 202	Introduction to Mass Communication
LATI 101	First Course in Latin
LATI 102	Second Course in Latin
LATI 201	Third Course in Latin
RUSS 101	First Course in Russian
RUSS 102	Second Course in Russian
RUSS 201	Third Course in Russian
SPAN 202	Fourth Course in Spanish
SPAN 210	Conversation and Composition Spanish I
SPAN 211	Conversation and Composition Spanish II
SPAN 216	Spanish for Spanish Speakers II
TAGA 101	First Course in Tagalog
TAGA 102	Second Course in Tagalog
TAGA 201	Third Course in Tagalog
VIET 101	First Course in Vietnamese
VIET 102	Second Course in Vietnamese
VIET 201	Third Course in Vietnamese
3	
<b>Total Units = 18</b>	

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—Tagalog

The Language Arts and Humanities Studies—Tagalog emphasis is intended to help students prepare for possible majors within a language arts and Tagalog language-related major. Common university majors in this field include: Foreign Language (all) and Tagalog language. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (15 units)</b>		
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
<b>Select a minimum of 3 units</b>		
CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
CHIN 101	First Course in Mandarin Chinese	
CHIN 102	Second Course in Mandarin Chinese	
CHIN 201	Third Course in Mandarin Chinese	
COMS 135	Interpersonal Communication	
COMS 170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	
FREN 101	First Course in French	
FREN 102	Second Course in French	
FREN 201	Third Course in French	
GERM 101	First Course in German	
GERM 102	Second Course in German	
GERM 201	Third Course in German	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian Civilizations in Modern Times	
ITAL 101	First Course in Italian	
ITAL 102	Second Course in Italian	
ITAL 201	Third Course in Italian	
JAPN 101	First Course in Japanese	
JAPN 102	Second Course in Japanese	
JAPN 201	Third Course in Japanese	
JOUR 201	Advanced Newswriting and Reporting	
JOUR 202	Introduction to Mass Communication	
LATI 101	First Course in Latin	
LATI 102	Second Course in Latin	
LATI 201	Third Course in Latin	
RUSS 101	First Course in Russian	
RUSS 102	Second Course in Russian	
RUSS 201	Third Course in Russian	
SPAN 101	First Course in Spanish	
SPAN 102	Second Course in Spanish	
SPAN 201	Third Course in Spanish	
VIET 101	First Course in Vietnamese	
VIET 102	Second Course in Vietnamese	
VIET 201	Third Course in Vietnamese	
3		
<b>Total Units = 18</b>		

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Language Arts and Humanities Studies—Vietnamese

The Language Arts and Humanities Studies—Vietnamese emphasis is intended to help students prepare for possible majors within a language arts and Vietnamese language-related major. Common university majors in this field include: Foreign Language (all) and Vietnamese language. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

### Required Courses: Units

#### Core courses (15 units)

VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5

#### Select a minimum of 3 units

CHIC 135	Chicana/o Literature	
CHIC 138	Literature of La Raza in Latin America in Translation	
CHIN 101	First Course in Mandarin Chinese	
CHIN 102	Second Course in Mandarin Chinese	
CHIN 201	Third Course in Mandarin Chinese	
COMS 135	Interpersonal Communication	
COMS 170	Small Group Communication	
ENGL 202	Introduction to Linguistics	
ENGL 215	English Literature I: 800-1799	
ENGL 216	English Literature II: 1800 - Present	
FREN 101	First Course in French	
FREN 102	Second Course in French	
FREN 201	Third Course in French	
GERM 101	First Course in German	
GERM 102	Second Course in German	
GERM 201	Third Course in German	
HIST 120	Introduction to Asian Civilizations	
HIST 121	Asian Civilizations in Modern Times	
ITAL 101	First Course in Italian	
ITAL 102	Second Course in Italian	
ITAL 201	Third Course in Italian	
JAPN 101	First Course in Japanese	
JAPN 102	Second Course in Japanese	
JAPN 201	Third Course in Japanese	
JOUR 202	Introduction to Mass Communication	
LATI 101	First Course in Latin	
LATI 102	Second Course in Latin	

LATI 201	Third Course in Latin	
RUSS 101	First Course in Russian	
RUSS 102	Second Course in Russian	
RUSS 201	Third Course in Russian	
SPAN 101	First Course in Spanish	
SPAN 102	Second Course in Spanish	
SPAN 201	Third Course in Spanish	
TAGA 101	First Course in Tagalog	
TAGA 102	Second Course in Tagalog	
TAGA 201	Third Course in Tagalog	

3

**Total Units = 18**

## Mathematics and Pre-Engineering Studies

The Mathematics and Pre-Engineering Studies emphasis is intended to help students prepare for possible majors within a mathematics or engineering related major. Common university majors in this field include: Applied Mathematics, Computer Engineering, Computer Science, Computer Science with Bioinformatics, Mathematics, Mathematics and Economics, Scientific Computation, and Statistics. Common university engineering majors in this field include: Aerospace Engineering, Bioengineering, Civil Engineering, Computer Engineering, Construction Engineering, Electrical Engineering, Engineering, Engineering Physics, Engineering Technology, Environmental Engineering, Industrial Engineering and Technology, Manufacturing Engineering, Materials Science, Mechanical Engineering, Nuclear Engineering, and Structural Engineering. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

### Student Learning Outcomes

Students who complete the Liberal Arts and Sciences with an emphasis in Mathematics and Pre-Engineering Studies Program will be able to:

- Apply their knowledge of math and science to analyze, conceptualize, identify, formulate, and solve problems.
- Use technological software to design and implement projects.

- Communicate effectively and perform on multi-disciplinary teams and groups.
- Increase their global awareness by using techniques, skills, and modern global scientific tools

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Mathematics and Pre-Engineering Studies— Mathematics

The Mathematics and Pre-Engineering Studies—Mathematics emphasis is intended to help students prepare for possible majors within a mathematics related major. Common university majors in this field include: Applied Mathematics, Mathematics, Mathematics and Economics, Scientific Computation, and Statistics. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

Required Courses:	Units
<b>Core courses (13 units)</b>	
MATH 150 Calculus with Analytic Geometry I	5
MATH 151 Calculus with Analytic Geometry II	4
MATH 252 Calculus with Analytic Geometry III	4
<b>Select a minimum of 5 units</b>	
CISC 190 Java Programming	
CISC 192 C/C++ Programming	
MATH 119 Elementary Statistics	
MATH 245 Discrete Mathematics	
MATH 254 Introduction to Linear Algebra	
MATH 255 Differential Equations	5
<b>Total Units = 18</b>	

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Mathematics and Pre-Engineering Studies— Computer Science

The Mathematics and Pre-Engineering Studies—Computer Science emphasis is intended to help students prepare for possible majors within a computer science related major. Common university majors in this field include: Computer Engineering, Computer Science, and Computer Science with Bioinformatics. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

Required Courses:	Units
<b>Core courses (13 units)</b>	
MATH 150 Calculus with Analytic Geometry I	5
MATH 151 Calculus with Analytic Geometry II	4
MATH 252 Calculus with Analytic Geometry III	4
<b>Select a minimum of 5 units</b>	
BIOL 210A Introduction to the Biological Sciences I	
BIOL 210B Introduction to the Biological Sciences II	
CHEM 200 General Chemistry I Lecture	
CHEM 200L General Chemistry I Laboratory	
CHEM 201 General Chemistry II Lecture	
CHEM 201L General Chemistry II Laboratory	
CISC 190 Java Programming	
CISC 192 C/C++ Programming	
MATH 119 Elementary Statistics	
MATH 245 Discrete Mathematics	
MATH 254 Introduction to Linear Algebra	
MATH 255 Differential Equations	
PHYS 195 Mechanics	
PHYS 196 Electricity and Magnetism	
PHYS 197 Waves, Optics and Modern Physics	5
<b>Total Units = 18</b>	

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Mathematics and Pre-Engineering Studies— Engineering

The Mathematics and Pre-Engineering Studies—Engineering emphasis is intended to help students prepare for possible majors within an Engineering related major. Common university engineering majors in this field include: Aerospace Engineering, Bioengineering, Civil Engineering, Computer Engineering, Construction Engineering, Electrical Engineering, Engineering, Engineering Physics, Engineering Technology, Environmental Engineering, Industrial Engineering and Technology, Manufacturing Engineering, Materials Science, Mechanical Engineering, Nuclear Engineering, and Structural Engineering. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

Required Courses:	Units
<b>Core courses (15 units)</b>	
MATH 150 Calculus with Analytic Geometry I	5
PHYS 195 Mechanics	5
CHEM 200 General Chemistry I Lecture	3
CHEM 200L General Chemistry I Laboratory	2
<b>Select a minimum of 3 units</b>	
CHEM 201 General Chemistry II - Lecture	
CHEM 201L General Chemistry II - Laboratory	
CISC 190 Java Programming	
CISC 192 C/C++ Programming	
ENGE 200 Statics	
ENGE 210 Properties of Materials	
ENGE 240 Digital Systems	
ENGE 250 Dynamics	
ENGE 260 Electric Circuits	
MATH 151 Calculus with Analytic Geometry II	
MATH 245 Discrete Mathematics	
MATH 252 Calculus with Analytic Geometry III	
MATH 254 Introduction to Linear Algebra	
MATH 255 Differential Equations	
PHYS 196 Electricity and Magnetism	
PHYS 197 Waves, Optics and Modern Physics	
<hr/>	3
<b>Total Units = 18</b>	

## Science Studies

The Science Studies emphasis is intended to help students prepare for possible majors within a science-related major. Common university majors in this field include: Anthropology, Biochemistry, Bioinformatics, Biological Sciences, Biotechnology, Cell Biology, Chemistry, Cognitive Science, Developmental Biology, Earth Science, Ecology, Environmental Science, Foods and Nutrition, Geography, Geology, Health Science, Kinesiology, Marine Biology, Microbiology, Molecular Biology, Neuroscience, Nursing, Physics, Physiological Science, Psychobiology, and Psychology. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

### Student Learning Outcomes

Students who complete the Liberal Arts and Sciences with an emphasis in Science Studies Program will be able to:

- Think critically by analyzing problems, weighing evidence, and drawing conclusions. The student will utilize both inductive and deductive reasoning in these efforts.
- Articulate critical thinking outcomes in writing.
- Assess the value of technology in the endeavor to understand the natural world. In laboratory settings, the student will employ technology in the gathering of evidence about the natural world and in the analysis of that evidence.
- Demonstrate understanding of the impact of science on the environment and on society.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Science Studies— Biological Sciences

The Science Studies—Biological Science emphasis is intended to help students prepare for possible majors within a biological science-related major.

Common university majors in this field include: Biochemistry, Bioinformatics, Biological Sciences, Biotechnology, Cell Biology, Chemistry, Cognitive Science, Developmental Biology, Physics, Physiological Science, and Psychobiology. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

**Required Courses:** **Units**

**Core courses (8 units)**

BIOL 210A	Introduction to the Biological Sciences I	4
BIOL 210B	Introduction to the Biological Sciences II	4

**Select a minimum of 10 units**

BIOL 200	Biological Statistics	
CHEM 200	General Chemistry I Lecture	
CHEM 200L	General Chemistry I Laboratory	
CHEM 201	General Chemistry II Lecture	
CHEM 201L	General Chemistry II Laboratory	
CHEM 231	Organic Chemistry I Lecture	
CHEM 231L	Organic Chemistry I Laboratory	
CHEM 233	Organic Chemistry II-Lecture	
CHEM 233L	Organic Chemistry II-Laboratory	
CHEM 251	Analytic Chemistry	
CISC 186	Visual Basic Programming	
CISC 189A	Introduction to Programming I	
CISC 189B	Introduction to Programming II	
CISC 190	Java Programming	
CISC 192	C/C++ Programming	
MATH 119	Elementary Statistics	
MATH 121	Basic Techniques of Applied Calculus I	
MATH 122	Basic Techniques of Applied Calculus II	
MATH 150	Calculus with Analytic Geometry I	
MATH 151	Calculus with Analytic Geometry II	
PHYS 125	General Physics	
PHYS 126	General Physics II	
PHYS 195	Mechanics	
PHYS 196	Electricity and Magnetism	
PHYS 197	Waves, Optics and Modern Physics	
		10

**Total Units = 18**

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Science Studies— Physical Sciences—Chemistry

The Science Studies—Physical Sciences—Chemistry emphasis is intended to help students prepare for possible majors within a chemistry-related major. Common university majors in this field include: Chemistry, Chemical Engineering, and Chemical Physics. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

**Required Courses:** **Units**

**Core courses (10 units)**

CHEM 200	General Chemistry I Lecture	3
CHEM 200L	General Chemistry I Laboratory	2
CHEM 201	General Chemistry II Lecture	3
CHEM 201L	General Chemistry II Laboratory	2

**Select a minimum of 8 units**

CHEM 231	Organic Chemistry I Lecture	
CHEM 231L	Organic Chemistry I Laboratory	
CHEM 233	Organic Chemistry II-Lecture	
CHEM 233L	Organic Chemistry II-Laboratory	
CHEM 251	Analytic Chemistry	
CISC 186	Visual Basic Programming	
CISC 189A	Introduction to Programming I	
CISC 189B	Introduction to Programming II	
CISC 190	Java Programming	
CISC 192	C/C++ Programming	
MATH 119	Elementary Statistics	
MATH 150	Calculus with Analytic Geometry I	
MATH 151	Calculus with Analytic Geometry II	
MATH 245	Discrete Mathematics	
MATH 252	Calculus with Analytic Geometry III	
MATH 254	Introduction to Linear Algebra	
MATH 255	Differential Equations	
PHYS 195	Mechanics	
PHYS 196	Electricity and Magnetism	
PHYS 197	Waves, Optics and Modern Physics	
		8

**Total Units = 18**

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Science Studies— Physical Sciences—Physics

The Science Studies—Physical Sciences—Physics emphasis is intended to help students prepare for possible majors within a physics-related major. Common university majors in this field include: Physics, Chemical Physics, and Physiological Science. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

### Required Courses: Units

#### Core courses (15 units)

PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5

#### Select a minimum of 3 units

CHEM 200	General Chemistry I Lecture	
CHEM 200L	General Chemistry I Laboratory	
MATH 150	Calculus with Analytic Geometry I	
MATH 151	Calculus with Analytic Geometry II	
MATH 252	Calculus with Analytic Geometry III	
		3-5

**Total Units = 18-20**

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Science Studies— Physical Sciences—Earth Sciences

The Science Studies—Physical Sciences—Earth Sciences emphasis is intended to help students prepare for possible majors within an earth science-related major. Common university majors in this field include: Earth Science, Ecology, Environmental Science, Geography, and Geology. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

### Required Courses: Units

#### Core courses

GEOG 101	Physical Geography <b>and</b>	
GEOG 101L	Physical Geography Laboratory <b>or</b>	
GEOL 100	General Geology <b>and</b>	
GEOL 101	General Geology Laboratory <b>or</b>	
GEOL 104	Earth Science	

3-4

#### Select a minimum of 15 units

ASTR 101	Descriptive Astronomy	
CHEM 200	General Chemistry I Lecture	
CHEM 200L	General Chemistry I Laboratory	
CHEM 201	General Chemistry II Lecture	
CHEM 201L	General Chemistry II Laboratory	
GISG 104	Geographic Information Science and Spatial Reasoning	
MATH 150	Calculus with Analytic Geometry I	
MATH 151	Calculus with Analytic Geometry II	
MATH 252	Calculus with Analytic Geometry III	
PHYS 195	Mechanics	
PHYS 196	Electricity and Magnetism	
PHYS 197	Waves, Optics and Modern Physics	

15

**Total Units = 18-19**

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Science Studies— Physical Sciences—Pre-Nursing

The Science Studies—Physical Sciences—Pre-Nursing emphasis is intended to help students prepare for possible majors within a nursing-related major. Common university majors in this field include: Nursing. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

### Required Courses: Units

#### Core courses (17 units)

BIOL 107	General Biology-Lecture and Laboratory	4
CHEM 100	Fundamentals of Chemistry	3
CHEM 100L	Fundamentals of Chemistry Laboratory	1
BIOL 230	Human Anatomy	4
BIOL 205	General Microbiology	5

**Select a minimum of 3 units**

BIOL 235	Human Physiology	
CHEM 130	Introduction to Organic and Biological Chemistry	
CHEM 130L	Introduction to Organic and Biological Chemistry Laboratory	
COMS 103	Oral Communication	
PSYC 101	General Psychology	
SOCO 101	Principles of Sociology	
		3
<b>Total Units = 20</b>		

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Science Studies— Physical Sciences—Kinesiology and Nutrition

The Science Studies—Physical Sciences—Kinesiology and Nutrition emphasis is intended to help students prepare for possible majors within a kinesiology and nutrition-related major. Common university majors in this field include: Foods and Nutrition, Health Science, and Kinesiology. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>	<b>Units</b>	
<b>Core courses (12 units)</b>		
BIOL 107	General Biology-Lecture and Laboratory	4
CHEM 100	Fundamentals of Chemistry and	
CHEM 100L	Fundamentals of Chemistry Laboratory <b>or</b>	
CHEM 152	Introduction to General Chemistry <b>and</b>	
CHEM 152L	Introduction to General Chemistry Laboratory	4
BIOL 230	Human Anatomy	4

**Select a minimum of 6 units**

ACCT 116A	Financial Accounting	
BIOL 205	General Microbiology	
BIOL 210A	Introduction to the Biological Sciences I	
CHEM 130	Introduction to Organic and Biological Chemistry	
CHEM 130L	Introduction to Organic and Biological Chemistry Laboratory	
CHEM 160	Introductory Biochemistry	
CHEM 200	General Chemistry I Lecture	

CHEM 200L	General Chemistry I Laboratory	
CHEM 201	General Chemistry II Lecture	
CHEM 201L	General Chemistry II Laboratory	
PHYE 166	Weight Training	
PHYE 241	Introduction to Exercise Science/ Physical Education	
PHYE 242	Care and Prevention of Injuries	
PHYS 125	General Physics	
PHYS 126	General Physics II	
PSYC 101	General Psychology	
PSYC 258	Behavioral Science Statistics	
SOCO 101	Principles of Sociology	
		6

**Total Units = 18**

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Science Studies— Physical Sciences—Psychology\*

The Science Studies—Physical Sciences—Psychology emphasis is intended to help students prepare for possible majors within a psychology-related major. Common university majors in this field include: Psychobiology and Psychology. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>	<b>Units</b>	
<b>Core courses (6-13 units)</b>		
MATH 121	Basic Techniques of Applied Calculus I	
	<b>and</b>	
MATH 122	Basic Techniques of Applied Calculus II	
	<b>or</b>	
MATH 150	Calculus with Analytic Geometry I	
	<b>and</b>	
MATH 151	Calculus with Analytic Geometry II	
	<b>and</b>	
MATH 252	Calculus with Analytic Geometry III	
		6-13

**Select a minimum of 5 units (total of 18 units)**

BIOL 107	General Biology-Lecture and Laboratory	
BIOL 210A	Introduction to the Biological Sciences I	
BIOL 210B	Introduction to the Biological Sciences II	
CHEM 100	Fundamentals of Chemistry	
CHEM 100L	Fundamentals of Chemistry Laboratory	
CHEM 152	Introduction to General Chemistry	
CHEM 200	General Chemistry I Lecture	

CHEM 200L	General Chemistry I Laboratory
CHEM 201	General Chemistry II Lecture
CHEM 201L	General Chemistry II Laboratory
CISC 182	Fluency with Information Technology
CISC 190	Java Programming
PHYS 195	Mechanics
PHYS 196	Electricity and Magnetism
PHYS 197	Waves, Optics and Modern Physics
5-11	
<b>Total Units = 18</b>	

\* Certain transfer institutions may require behavioral sciences prep for major. See Social and Behavioral Sciences emphasis.

## Social and Behavioral Sciences

The Social and Behavioral Science Studies emphasis is intended to help students prepare for possible majors within a social/ behavioral science-related major. Common university majors in this field include: Anthropology, Child Development, Criminal Justice Administration, Gerontology, History, Human Development, Political Science, Psychology, Social Science, Social Work, Sociology, Urban Studies and Planning, and Women's Studies. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

### Student Learning Outcomes

Students who complete the Liberal Arts and Sciences with an emphasis in Social and Behavioral Sciences Program will be able to:

- Develop critical thinking skills in writing including the ability to frame questions, collect and weigh evidence, develop hypotheses, and derive conclusions.
- Develop critical thinking skills in other modes of communication (spoken and unspoken) including the ability to frame questions, collect and weigh evidence, develop hypotheses and derive conclusions.
- Compare and contrast the different research methods and/or critical assessments methods within the Social and Behavioral Sciences.

- Develop an awareness of civic responsibilities and knowledge of global issues.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Anthropology

The Social and Behavioral Science Studies—Anthropology emphasis is intended to help students prepare for possible majors within a social/ behavioral science anthropology-related major. Common university majors in this field include: Anthropology. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (6 Units)</b>		
ANTH 102	Introduction to Physical Anthropology	3
ANTH 103	Introduction to Cultural Anthropology	3
<b>Select a minimum of 12 units</b>		
BIOL 210A	Introduction to the Biological Sciences I	
BIOL 210B	Introduction to the Biological Sciences II	
CBTE 140	Microsoft Excel	
CBTE 140A	Introduction to Microsoft Excel	
CBTE 151	Introduction to Microsoft Access	
CBTE 161	Learning the Internet	
CBTE 162	Web Page Creation	
LIBS 101	Information Literacy and Research Skills	
MATH 119	Elementary Statistics or	
PSYC 258	Behavioral Science Statistics	
Any Foreign Language Course, Including AMSL		12
<b>Total Units = 18</b>		



## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Child Development

The Social and Behavioral Science Studies—Child Development emphasis is intended to help students prepare for possible majors within a child development-related major. Common university majors in this field include: Child Development, Human Development, and Social Science. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (12 Units)</b>		
CHIL 101	Human Growth and Development	3
CHIL 141	The Child, Family and Community	3
PSYC 101	General Psychology	3
SOCO 101	Principles of Sociology	3
<b>Select a minimum of 6 units:</b>		
BIOL 107	General Biology-Lecture and Laboratory	
CHIL 111	Curriculum: Music/Motor Skills	
CHIL 121	Creative Art	
CHIL 131	Curriculum: Language/Science	
CHIL 151	Program Planning	
CHIL 160	Observing and Understanding Children	
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics	
		6
<b>Total Units = 18</b>		

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Economics

The Social and Behavioral Science Studies—Economics emphasis is intended to help students prepare for possible majors within a economics-related major. Common university majors in this field include: Child Development, Sociology, and Economics. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because

admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (6 Units)</b>		
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3
<b>Select a minimum of 12 units:</b>		
ACCT 116A	Financial Accounting	
ACCT 116B	Managerial Accounting	
CBTE 140	Microsoft Excel	
CBTE 140A	Introduction to Microsoft Excel	
CBTE 151	Introduction to Microsoft Access	
CBTE 161	Learning the Internet	
CISC 181	Principles of Information Systems	
COMS 160	Argumentation	
LIBS 101	Information Literacy and Research Skills	
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics	
MATH 121	Basic Techniques of Applied Calculus I	
MATH 122	Basic Techniques of Calculus II	
MATH 150	Calculus with Analytic Geometry I	
MATH 151	Calculus with Analytic Geometry II	
MATH 252	Calculus with Analytic Geometry III	
MATH 254	Introduction to Linear Algebra	
MATH 255	Differential Equations	
Any Foreign Language Course, Including AMSL		
		12
<b>Total Units = 18</b>		

## Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Human Development

The Social and Behavioral Science Studies—Human Development emphasis is intended to help students prepare for possible majors within a human development-related major. Common university majors in this field include: Child Development, Human Development, and Social Science. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

**Required Courses:** **Units**

**Core courses (14-15 Units)**

**Select 7-8 units from the following:**

BIOL 107	General Biology-Lecture and Laboratory	
BIOL 210A	Introduction to the Biological Sciences I	
BIOL 210B	Introduction to the Biological Sciences II	
PSYC 260	Introduction to Physiological Psychology	
		7-8
CISC 182	Fluency with Information Technology <b>or</b>	
CISC 190	Java Programming <b>or</b>	
CISC 192	C/C++ Programming	
		4
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics	
		3

**Select a minimum 3-4 units to complete 18 units from:**

ANTH 103	Introduction to Cultural Anthropology	
BLAS 140B	History of the U.S., Black Perspectives	
CHIC 110B	Introduction to Chicano Studies	
CHIC 141B	United States History from a Chicano Perspective	
HIST 123	U.S. History from the Asian Pacific American Perspective	
MATH 121	Basic Techniques of Applied Calculus I	
MATH 122	Basic Techniques of Calculus II	
MATH 150	Calculus with Analytic Geometry I	
MATH 151	Calculus with Analytic Geometry II	
MATH 252	Calculus with Analytic Geometry III	
PHIL 101	Symbolic Logic	
SOCO 101	Principles of Sociology	
		3-4

**Total Units = 18**

**Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—History**

The Social and Behavioral Science Studies—History emphasis is intended to help students prepare for possible majors within a history-related major. Common university majors in this field include: History, and Social Science. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation

requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

**Required Courses:** **Units**

**Core courses 6 Units Sequence from**

HIST 100	World History I <b>and</b>	
HIST 101	World History II <b>or</b>	
HIST 105	Introduction to Western Civilization I <b>and</b>	
HIST 106	Introduction to Western Civilization II <b>or</b>	
HIST 109	History of the United States I <b>and</b>	
HIST 110	History of the United States II <b>or</b>	
HIST 115A	History of the Americas I <b>and</b>	
HIST 115B	History of the Americas II <b>or</b>	
HIST 120	Introduction to Asian Civilizations <b>and</b>	
HIST 121	Asian Civilizations in Modern Times <b>or</b>	
HIST 150	Native Americans in United States History <b>and</b>	
HIST 151	Native Americans in United States History	
		6

**Select a minimum of 12 units**

BLAS 140A	History of the U.S., Black Perspectives	
BLAS 140B	History Of The U.S., Black Perspectives	
CHIC 110B	Introduction to Chicano Studies	
CHIC 141B	United States History from a Chicano Perspective	
HIST 123	U.S. History from the Asian Pacific American Perspective	
		12

**Total Units = 18**

**Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Political Science**

The Social and Behavioral Science Studies—Political Science emphasis is intended to help students prepare for possible majors within a political science-related major. Common university majors in this field include: Political Science and Social Science. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (6 units)</b>		
POLI 102	The American Political System	3
POLI 103	Comparative Politics	3
<b>Select a minimum of 12 units</b>		
POLI 101	Introduction to Political Science	
POLI 140	Contemporary International Politics	
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics	
Any Foreign Language Course, Including AMSL		
		12
<b>Total Units = 18</b>		

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Psychology\*

The Social and Behavioral Science Studies—Psychology emphasis is intended to help students prepare for possible majors within a psychology-related major. Common university majors in this field include: Psychology and Social Science. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (6 units)</b>		
PSYC 101	General Psychology	3
PSYC 258	Behavioral Science Statistics	3
<b>Select a minimum of 12 units</b>		
BIOL 107	General Biology-Lecture and Laboratory <b>or</b>	
BIOL 210A	Introduction to the Biological Sciences I	
PSYC 211	Learning	
PSYC 230	Psychology of Lifespan Development	
PSYC 260	Introduction to Physiological Psychology	
Any Foreign Language Course, Including AMSL		
		12
<b>Total Units = 18</b>		

\* Certain transfer institutions may require behavioral sciences prep for major. See Social and Behavioral Sciences emphasis.

### Associate in Arts Degree: Psychology for Transfer

**This degree is accepted by some but not all CSU campuses.**

The Associate in Arts in Psychology for Transfer is intended for students who plan to complete a bachelor's degree in Psychology in the California State University (CSU) system.

Students are required to complete:

- a minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- a minimum of 60 CSU-transferable units using the California State University-General Education-Breadth pattern (CSU-GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. **No more than 60 units are required.**

Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be appropriate preparation for students transferring to a particular CSU campus or to a university or college that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

**NOTE:** At the time of the 2011-2012 catalog printing, this degree is not accepted by San Diego State University (SDSU). Students intending to transfer to SDSU should consult a counselor and visit [www.assist.org](http://www.assist.org) for guidance on appropriate transfer coursework.

<b>Required Courses:</b>		
PSYC 101	General Psychology*	
PSYC 255	Introduction to Psychological Research	
BIOL 200	Biological Statistics* <b>or</b>	
MATH 119	Elementary Statistics* <b>or</b>	
PSYC 258	Behavioral Science and Statistics*	
		9

**Select one of the following courses:**

BIOL 107	General Biology - Lecture and Laboratory*
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PSYC 260	Introduction to Physiological Psychology*	
		3-4

**Select one of the following courses (not selected above):**

*(It is recommended to select courses that meet lower division major preparation requirements for your transfer university)*

BIOL 107	General Biology - Lecture and Laboratory*	
BIOL 210A	Introduction to the Biological Sciences I - Lecture and Laboratory*	
BIOL 230	Human Anatomy - Lecture and Laboratory*	
CHEM 100/100L	Fundamentals of Chemistry/Laboratory*	
CHEM 130/130L	Introduction to Organic and Biological Chemistry/Laboratory*	
CHEM 200/200L	General Chemistry I/Laboratory*	
CHEM 201/201L	General Chemistry II/Laboratory*	
CHIL 101	Human Growth and Development*	
CISC 192	C/C++ Programming	
ENGL 101	Reading and Composition*	
ENGL 105	Composition and Literature*	
ENGL 205	Critical Thinking*	
MATH 104	Trigonometry*	
MATH 150	Calculus with Analytic Geometry I*	
MATH 151	Calculus with Analytic Geometry II*	
PHIL 100	Logic and Critical Thinking*	
PHIL 205	Critical Thinking and Writing in Philosophy*	
PHYS 125	General Physics*	
PHYS 126	General Physics II*	
PHYS 195	Mechanics*	
PHYS 196	Electricity and Magnetism*	
PHYS 197	Waves, Optics, and Modern Physics*	
PSYC 121	Introduction to Child Psychology*	
PSYC 125	Introduction to Behavior Modification	
PSYC 155	Introduction to Personality*	
PSYC 166	Introduction to Social Psychology*	
PSYC 211	Learning*	
PSYC 230	Psychology of Lifespan Development*	
PSYC 260	Introduction to Physiological Psychology*	
SOCO 101	Principles of Sociology*	
SOCO 110	Contemporary Social Problems*	
		3-5

**Select one of the following courses (not selected above):**

*(It is recommended to select courses that meet lower division major preparation requirements for your transfer university)*

BIOL 107	General Biology - Lecture and Laboratory*	
BIOL 210A	Introduction to the Biological Sciences I - Lecture and Laboratory*	
BIOL 230	Human Anatomy-Lecture and Laboratory*	
CHEM 100/100L	Fundamentals of Chemistry/Laboratory*	
CHEM 130/130L	Introduction to Organic and Biological Chemistry/Laboratory*	
CHEM 200/200L	General Chemistry I/Laboratory*	
CHEM 201/201L	General Chemistry II/Laboratory*	
CHIL 101	Human Growth and Development*	
CISC 192	C/C++ Programming	
ENGL 101	Reading and Composition*	
ENGL 105	Composition and Literature*	
ENGL 205	Critical Thinking*	
MATH 104	Trigonometry*	
MATH 150	Calculus with Analytic Geometry I*	
MATH 151	Calculus with Analytic Geometry II*	
PHIL 100	Logic and Critical Thinking*	
PHIL 205	Critical Thinking and Writing in Philosophy*	
PHYS 125	General Physics*	
PHYS 126	General Physics II*	
PHYS 195	Mechanics*	
PHYS 196	Electricity and Magnetism*	
PHYS 197	Waves, Optics, and Modern Physics*	
PSYC 111	Psychological/Social Aspects of Aging, Death and Dying*	
PSYC 112	Interpersonal Relations*	
PSYC 121	Introduction to Child Psychology*	
PSYC 125	Introduction to Behavior Modification	
PSYC 128	Biofeedback and Stress Management*	
PSYC 133	Psychology of Women*	
PSYC 135	Marriage and Family Relations*	
PSYC 137	Human Sexual Behavior*	
PSYC 155	Introduction to Personality*	
PSYC 161	Introduction to Counseling	
PSYC 165	Theories of Consciousness	
PSYC 166	Introduction to Social Psychology*	
PSYC 211	Learning*	
PSYC 230	Psychology of Lifespan Development*	
PSYC 245	Abnormal Psychology*	
PSYC 260	Introduction to Physiological Psychology*	
PSYC 262	Health Psychology	
SOCO 101	Principles of Sociology*	
SOCO 110	Contemporary Social Problems	
		3-5

**Total Units = 18-23**

\* Course also fulfills general education requirements for the CSU GE or IGETC pattern.

**General Education:** In addition to the courses listed above, students must complete one of the following general education options:

- The IGETC pattern (page 109) is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/independent or out of state universities.
- The CSU GE pattern (page 117) is accepted by all CSU campuses and some private/independent or out of state universities. It is not accepted by the UC system.

It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

**Electives as needed to meet minimum of 60 CSU-transferable units required for the degree.**

## Associate in Arts Degree: Sociology for Transfer

**This degree is accepted by some but not all CSU campuses.**

The Associate in Arts in Sociology for Transfer is intended for students who plan to complete a bachelor's degree in Sociology or a related major in the California State University (CSU) system.

Students are required to complete:

- a minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
- a minimum of 60 CSU-transferable units using the California State University-General Education-Breadth pattern (CSU-GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. **No more than 60 units are required.**

Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

**NOTE:** At the time of the 2011-2012 catalog printing, this degree is not accepted by San Diego State University (SDSU). Students intending to transfer to SDSU should consult a counselor and visit [www.assist.org](http://www.assist.org) for guidance on appropriate transfer coursework.

### Required Courses:

SOCO 101	Principles of Sociology	3
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### Select two of the following courses:

SOCO 110	Contemporary Social Problems*	
PSYC 255	Introduction to Psychological Research	
BIOL 200	Biological Statistics* <b>or</b>	
MATH 119	Elementary Statistics* <b>or</b>	
PSYC 258	Behavioral Science and Statistics*	
		6

### Select two of the following courses (not selected above):

*(It is recommended to select courses that meet lower division major preparation requirements for your university)*

PSYC 166	Introduction to Social Psychology*	
SOCO 110	Contemporary Social Problems*	
SOCO 125	Sociology of the Family*	
SOCO 201	Advanced Principles of Sociology*	
SOCO 223	Globalization and Social Change*	
BIOL 200	Biological Statistics* <b>or</b>	
MATH 119	Elementary Statistics* <b>or</b>	
PSYC 258	Behavioral Science and Statistics*	
		6

### Select one of the following courses (not selected above):

*(It is recommended to select courses that meet lower division major preparation requirements for your transfer university)*

ANTH 103	Introduction to Cultural Anthropology*	
ENGL 105	Composition and Literature*	
ENGL 205	Critical Thinking*	
PHIL 100	Logic and Critical Thinking*	
PHIL 205	Critical Thinking and Writing in Philosophy	
PSYC 101	General Psychology*	
PSYC 166	Introduction to Social Psychology*	
SOCO 110	Contemporary Social Problems*	
SOCO 125	Sociology of the Family*	
SOCO 201	Advanced Principles of Sociology*	
SOCO 223	Globalization and Social Change*	
BIOL 200	Biological Statistics* <b>or</b>	
MATH 119	Elementary Statistics* <b>or</b>	

PSYC 258 Behavioral Science and Statistics*	3
<b>Total Units = 18</b>	

\* Course also fulfills general education requirements for the CSU GE or IGETC pattern.

**General Education:** In addition to the courses listed above, students must complete one of the following general education options:

- The IGETC pattern (page 109) is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/independent or out of state universities.
- The CSU GE pattern (page 117) is accepted by all CSU campuses and some private/independent or out of state universities. It is not accepted by the UC system.

It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

**Electives as needed to meet minimum of 60 CSU-transferable units required for the degree.**

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Social Sciences

The Social and Behavioral Science Studies—Social Sciences emphasis is intended to help students prepare for possible majors within a social/ behavioral science-related major. Common university majors in this field include: Anthropology, Economics, Political Science, Psychology, Social Science, Sociology, and Urban Studies and Planning. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

Required Courses:	Units
<b>Core courses (3 units)</b>	
BIOL 200 Biological Statistics <b>or</b>	
MATH 119 Elementary Statistics <b>or</b>	
PSYC 258 Behavioral Science Statistics	3

### Select a minimum of 15 units

ANTH 102 Introduction to Physical Anthropology	
ANTH 103 Introduction to Cultural Anthropology	
CHIC 141A United States History from a Chicano Perspective	
CHIC 141B United States History from a Chicano Perspective	
ECON 120 Principles of Macroeconomics	
ECON 121 Principles of Microeconomics	
GEOG 101 Physical Geography	
GEOG 102 Cultural Geography	
HIST 105 Introduction to Western Civilization I	
HIST 106 Introduction to Western Civilization II	
HIST 109 History of the United States I	
HIST 110 History of the United States II	
HIST 115A History of the Americas I	
HIST 115B History of the Americas II	
POLI 101 Introduction to Political Science	
POLI 102 The American Political System	
POLI 103 Comparative Politics	
SOCO 101 Principles of Sociology	
SOCO 110 Contemporary Social Problems	
<b>15</b>	
<b>Total Units = 18</b>	

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Sociology

The Social and Behavioral Science Studies—Sociology emphasis is intended to help students prepare for possible majors within a sociology-related major. Common university majors in this field include: Social Science, Social Work, Sociology, and Urban Studies and Planning. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

Required Courses:	Units
<b>Core courses (6 units)</b>	
SOCO 101 Principles of Sociology	3
MATH 119 Elementary Statistics <b>or</b>	
PSYC 258 Behavioral Science Statistics	3
<b>Select a minimum of 12 units</b>	
CBTE 140 Microsoft Excel	
CBTE 140A Introduction to Microsoft Excel	
CBTE 151 Introduction to Microsoft Access	

CBTE 161	Learning the Internet
CBTE 162	Web Page Creation
CISC 181	Principles of Information Systems
PSYC 255	Introduction to Psychological Research
SOCO 110	Contemporary Social Problems
SOCO 201	Advanced Principles of Sociology
Any Foreign Language Course, Including AMSL	

12

**Total Units = 18**

### Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Women’s Studies

The Social and Behavioral Science Studies—Women’s Studies emphasis is intended to help students prepare for possible majors within a women’s studies-related major. Common university majors in this field include: Social Science and Women’s Studies. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major must be selected with the assistance of a San Diego Mesa College counselor.

#### Required Courses: Units

##### Core courses (6 units)

PSYC 133	Psychology of Women <b>or</b>	
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	3
PHIL 125	Philosophy of Women	3

##### Select a minimum of 12 units

PSYC 133	Psychology of Women <b>or</b>	
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (if not taken in core)	

Any Foreign Language Course, Including AMSL

12

**Total Units = 18**

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may**

**be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Liberal Studies

Award Type	Units
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<b>Associate in Arts Degree:</b>	
Elementary Education Preparation	40-43*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

The Liberal Studies degree is an interdisciplinary program designed for students interested in a career in elementary education. Required courses in the degree serve to prepare student for transfer to public and private baccalaureate degree-offering colleges and universities. The curriculum includes courses selected from Language and Rationality, Natural Sciences, Humanities, and Social and Behavioral Sciences.

### Program Emphasis

Our mission is to assist San Diego Mesa College students to achieve their fullest potential as students, prepare them to transfer to CSU, UC, or a private college/university of choice, in order to become excellent teachers and leaders in the field of education. The courses in this program emphasize a number of student learning outcomes including critical thinking, communication, civic responsibility, global awareness, self-awareness, and interpersonal skills which form a foundation for effective teaching.

### Career Options

Most careers in teaching at the elementary school level require education beyond the associate degree.

Students will need to transfer to a four-year college or university to complete the baccalaureate degree and achieve a teaching credential. This degree program may also prepare students in careers other than elementary education, in that it provides a breadth of knowledge and skills found useful in a variety of career fields.

## Student Learning Outcomes

Students who complete the Liberal Studies Program with an emphasis in Elementary Education Preparation will be able to demonstrate:

- Global awareness and cultural sensitivity
- Interpersonal skills in a diverse setting
- Effective communication in teaching and learning environments
- Technological awareness

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Liberal Studies Elementary Education Preparation

Courses Required for the Major:	Units
GEOL 104 Earth Science	3
MATH 210B Concepts of Elem Math 2	3
MATH 212 Childrens Mathematical Thinking	1
MUSI 110 Music for Elem School Teachers	3
HIST 100 World History	3
GEOG 104 World Regional Geography	3
EDUC 200 Teaching as a Profession	2
EDUC 203 Service Learning for Prospective for Teachers	1
PHYE 240 P.E. in Elementary Schools	3
COMS 103 Oral Communication	3

### Select one course from the following:

COMS 160 Argumentation, or	
ENGL 205 Critical Thinking, or	
PHIL 100 Logic and Critical Thinking, or	
PHIL 103 Hist Intro to Philosophy, or	
PHIL 205 Critical Thinking	
	3

### Select one course from the following:

ENGL 220 Masterpieces of World Lit I or	
ENGL 221 Masterpieces of World Lit II or	
ENGL 208 Intro to World Literature	
	3

### Select one course from the following:

BLAS 140A History of the U.S., Black Perspective or	
CHIC 141A U.S. History, Chicano Perspective or	
HIST 109 History of the U.S I	
	3

### Select one course from the following:

BLAS 140B History of the U.S. Black Perspective or	
----------------------------------------------------	--

CHIC 141B U.S. History, Chicano Perspective or	
HIST 110 History of the U.S. II or	
POLI 102 American Political System	
	3

### Select one course from the following:

CHIL 101 Human Growth and Development or	
PSYC 101 General Psychology and	
PSYC 230 Psych lifespan Development	
	3-6

**Total Units = 40-43**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

### Electives as needed to meet minimum of 60 units required for the degree:

#### Strongly Recommended SDCCD GE course

**selections:** English 101 or 105; Mathematics 210A; Biology 107; Art-Fine Art 100; Geography 104.

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Marketing

Award Type	Units
<b>Certificate of Achievement:</b>	
Marketing	32
<b>Associate in Science Degree:</b>	
Marketing	45*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

## Description

Designed for the student interested in marketing as a career and tailored to develop competency in



merchandising, retailing, and wholesaling, in both large and small businesses. Students are encouraged to work part-time while attending college. The student can obtain credit for working by enrolling in Marketing 270. Successful completion should lead to a full-time position or serve as a foundation for further education. Students planning to transfer to a four-year college or university should select the Business Administration major.

### Student Learning Outcomes

Students who complete the Marketing Program will gain facility with:

- **Critical Thinking:** Students will be able to analyze, prepare, and present solutions to business problems, apply business concepts in a decision-making environment, and evaluate and weigh evidence in the course of deriving conclusions concerning alternative courses of action, using inductive and deductive logical reasoning and methodological processes.
- **Communication:** Students will be able to articulate and explain critical thinking outcomes in writing and speaking, as well as by other contemporary recognized modes of business communication.
- **Self-awareness and Interpersonal Skills:** Students will recognize and respect the business opinions and perspectives of others, and they will be able to work effectively with superiors, peer, and subordinates in organized group settings.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Achievement: Marketing

<b>Courses Required for the Major:</b>		<b>Units</b>
MARK 100	Principles of Marketing	3
MARK 105	Professional Selling	3
MARK 110	Principles of Retailing	3
MARK 130	Advertising Principles	3
ACCT 116A	Financial Accounting	4
BUSE 100	Introduction to Business (recommended as a first semester course)	3
BUSE 101	Business Mathematics	3
BUSE 119	Business Communications	3
BUSE 140	Business Law & the Legal Environment	3

CISC 181	Principles of Information Systems	4
		<b>Total Units = 32</b>

### Associate in Science Degree: Marketing

<b>Courses Required for the Major:</b>		<b>Units</b>
MARK 100	Principles of Marketing	3
MARK 105	Professional Selling	3
MARK 110	Principles of Retailing	3
MARK 130	Advertising Principles	3
ACCT 116A	Financial Accounting	4
ACCT 116B	Managerial Accounting	4
BUSE 100	Introduction to Business (recommended as a first semester course)	3
BUSE 101	Business Mathematics	3
BUSE 119	Business Communications	3
BUSE 140	Business Law & the Legal Environment	3
BUSE 150	Human Relations in Business	3
CISC 181	Principles of Information Systems	4
COMS 135	Interpersonal Communication	3
ECON 120	Principles of Macroeconomics	3
		<b>Total Units = 45</b>

For graduation requirements see **Requirements for the Associate Degree** on page 84.

#### Electives as needed to meet minimum of 60 units required for the degree:

**Recommended Electives:** Accounting 102; Business 201, 290; Fashion 115; Marketing 270; Psychology 101.

## Mathematics

<b>Award Type</b>	<b>Units</b>
<b>Associate in Arts Degree:</b>	
Applied Mathematics Option	27*
Mathematics	22-23*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

Successful completion of this curriculum will develop competence in mathematics through differential and integral calculus, providing an adequate background for employment in many technological and scientific

areas as well as providing a firm foundation for students planning advanced study.

### Student Learning Outcomes

Students who complete the Mathematics Program will be able to:

- Create a mathematical model for an applied problem
- Use a model to solve an applied problem
- Communicate in words the solution to an applied problem using correct units
- Identify answers that are extraneous or unreasonable within the context of the given problem

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Associate in Arts Degree: Mathematics

Courses Required for the Major:	Units
MATH 150 Calculus with Analytic Geometry I	5
MATH 151 Calculus with Analytic Geometry II	4
MATH 245 Discrete Mathematics	3
MATH 252 Calculus with Analytic Geometry III	4
MATH 254 Introduction to Linear Algebra	3

#### Select three-four units from:

Math 107 Introduction to Scientific Programming <b>and</b>	
Math 107L Introduction to Scientific Programming Lab <b>or</b>	
MATH 119 Elementary Statistics <b>or</b>	
MATH 255 Differential Equations, <b>or</b>	
PHIL 101 Symbolic Logic	
	3-4

**Total Units = 22-23**

**Note:** Only one Mathematics (MATH) course from the above list may be used to satisfy SDCCD general education requirements.

### Associate in Arts Degree: Mathematics

#### Applied Mathematics Option

Courses Required for the Major:	Units
MATH 107 Introduction to Scientific Programming	3

MATH 107L Introduction to Scientific Programming Lab	1
MATH 108 Intermediate Scientific Programming	3
MATH 108L Intermediate Scientific Programming Lab	1
MATH 150 Calculus with Analytic Geometry I	5
MATH 151 Calculus with Analytic Geometry II	4
MATH 245 Discrete Mathematics	3
MATH 252 Calculus with Analytic Geometry III	4
MATH 254 Introduction to Linear Algebra	3

**Total Units = 27**

**Note:** Only one Mathematics (MATH) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

#### Electives as needed to meet minimum of 60 units required for the degree:

**Recommended Electives:** Computer and Information Sciences 150; English 101; Life Sciences (one course); Mathematics 46, 96, (courses supporting the major) 104, 108, 108L, 118, 119, 141, 255; Physics 125, 126, 195 or 196; Psychology 101.

**Other courses offered in Mathematics to support other majors:** Mathematics 34A, 38, 116, 121, 122, 210A, 210B, 290.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Medical Assisting

Award Type	Units
<b>Certificate of Performance:</b>	
Phlebotomy	9.5
<b>Certificate of Achievement:</b>	
Medical Assisting	28
<b>Associate in Science Degree:</b>	
Medical Assisting	28*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

The Medical Assisting program offers a two semester Certificate of Achievement in Medical Assisting. All students completing the Medical Assisting program will be awarded a Certificate of Achievement. Graduates are eligible to take the Registered Medical Assistant (RMA) national certification exam and the California Certified Medical Assistant (CCMA) exam. Students who have been awarded a Certificate of Achievement in Medical Assisting, may continue and complete the additional courses needed for the Associate Degree in Medical Assisting.

A grade of "C" or better must be maintained in all courses to continue in the program. Course repetition in this program is not permitted. The program is governed by the Allied Health Department Policies.

Interested students should contact the Special Admissions clerk at 619-388-2684 or program director at 619-388-2267.

## Student Learning Outcomes

Students who complete the Medical Assisting Program will be able to:

- Perform safe and effective technical skills relative to the medical assisting "scope of practice".
- Demonstrate professional behaviors and attributes necessary to be a medical assistant.
- Demonstrate an understanding of ethical behavior relative to the medical assistant code of ethics.
- Communicate effectively, both verbally and in writing as appropriate for an entry level medical assistant.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Directed Clinical Practice Requirement

Students accepted into this program will be required to successfully complete Directed Clinical Practice/ clinically-based courses held in health care facilities. These facilities may require background checks, including fingerprinting, as a condition of placement at the clinic. Refusal to submit to a background check, or failure to meet clearance criteria established by the health care facility, may prevent placement in the Directed Clinical Practice/clinically-based course and thus, it may not be possible to successfully complete the program. Health care facilities also require adherence to strict standards of conduct. Facilities may refuse educational access to any person who does not adhere to the facility's standards of safety, health and ethical behavior. This may be cause for removal from the program.

## Certificate of Performance: Phlebotomy\*

This program includes basic didactic, advanced didactic and practical phlebotomy training, including a minimum of 50 to 100 patient venipunctures, 25 capillary punctures and two arterial puncture observations.

Courses Required for the Major:		Units
MEDA 80	Basic Phlebotomy	4.5
MEDA 85	Advanced Phlebotomy	4
MEDA 90	Phlebotomy Practicum	1

**Total Units = 9.5**

**Note:** Students completing the Phlebotomy Training Program must complete a minimum of 50 to 100 successful venipunctures, 25 successful capillary punctures and observe 2 arterial punctures in order to be awarded a Certificate of Performance in Phlebotomy, sit for the American Medical Technologist exam for Registered Phlebotomy Technician (RPT) and to apply for California state licensure as a Certified Phlebotomy Technician 1 (CPT1).

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Achievement: Medical Assisting

Courses Required for the Major:		Units
MEDA 55	Fundamentals Human Anatomy and Physiology	3
MEDA 64	Medical Ethics and Legal Issues for the Allied Health Professional	1
MEDA 66	Administrative Medical Assisting I	2
MEDA 68	Human Behavior for Allied Health Students	3
MEDA 76	Principles of Infection Control and Sterile Technique	1.5
MEDA 78	Principles of Patient Care	2
MEDA 82	Diagnostic Testing	1
MEDA 86	Administrative Medical Assisting II	2
MEDA 110	Medical Terminology	3
MEDA 115	Pathophysiology	3
MEDA 145	Directed Clinical Practice	3
MEDA 150	Phlebotomy	2
MEDA 220	Electrocardiogram Application	0.5
MEDA 230	Minor Surgery	0.5
MEDA 250	Medication Administration Practicum	0.5

**Total Units = 28**

## Associate in Science Degree: Medical Assisting

Courses Required for the Major:		Units
MEDA 55	Fundamentals Human Anatomy and Physiology	3
MEDA 64	Medical Ethics and Legal Issues for the Allied Health Professional	1
MEDA 66	Administrative Medical Assisting I	2
MEDA 68	Human Behavior for Allied Health Students	3
MEDA 76	Principles of Infection Control and Sterile Technique	1.5
MEDA 78	Principles of Patient Care	2
MEDA 82	Diagnostic Testing	1
MEDA 86	Administrative Medical Assisting II	2
MEDA 110	Medical Terminology	3
MEDA 115	Pathophysiology	3
MEDA 145	Directed Clinical Practice	3
MEDA 150	Phlebotomy	2
MEDA 220	Electrocardiogram Application	0.5
MEDA 230	Minor Surgery	0.5
MEDA 250	Medication Administration Practicum	0.5

**Total Units = 28**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

## Multimedia

Award Type	Units
<b>Certificate of Performance:</b>	
Digital Video	14
Flash	16
Multimedia Survey	17
New Media Publishing	12
Video Game Development	16
<b>Certificate of Achievement:</b>	
3D Animation and Modeling	32
Interactive Media Production	30-31
<b>Associate in Science Degree:</b>	
Multimedia	32-34*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

This program is designed to provide students of multimedia the opportunity to develop necessary foundation skills, master the tools and processes, and undergo industry standards production experiences. The program provides students with a comprehensive approach to the field of multimedia. The program curriculum is structured so as to provide students with a balance between aesthetic and practical design application. Upon completion of this program, students will be qualified for entry-level employment in the multimedia industry.

### Student Learning Outcomes

Students who complete the Multimedia Program will gain facility with:

- **Technological Awareness:** Students will develop interactive websites using Flash software and Dreamweaver software.
- **Critical Thinking:** Students will be able to analyze specific multimedia problems or situations and identify possible solutions, including predictive analysis, synthesis of information, resourcefulness, and troubleshooting.

- **Communication:** Students will be able to choose the appropriate mode of communication for a specific situation and then communicate ideas, concepts, and solutions through effective written and oral communication.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Performance: Digital Video\*

Successful completion of this program qualifies individuals for entry-level employment as digital video producers in the multimedia industry.

<b>Courses:</b>	<b>Units</b>
MULT 101 Introduction to Multimedia	4
MULT 112 Beginning Flash	4
MULT 123 Digital Video	3
MULT 137 3D Animation I: Introduction to 3D Animation	3
<b>Total Units = 14</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Performance: Flash\*

Successful completion of this program qualifies individual for entry-level employment as an animator, web site designer and creator of web applications using Flash in the multimedia industry.

<b>Courses:</b>	<b>Units</b>
MULT 101 Introduction to Multimedia	4
MULT 112 Beginning Flash	4
MULT 114 Intermediate Flash	4
MULT 116 Flash Game Development	4
<b>Total Units = 16</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Performance: Multimedia Survey\*

Successful completion of this program qualifies individuals for entry-level multimedia positions as authors, product designers, and web page designers.

<b>Courses:</b>	<b>Units</b>
MULT 101 Introduction to Multimedia	4
MULT 112 Beginning Flash	4
ARTF 150A Two-Dimensional Design	3

#### Select Two Courses From:

ARTF 152 Color Theory <b>or</b>	
ARTF 150B Beginning Graphic Design <b>or</b>	
ARTF 210A Life Drawing I <b>or</b>	
MULT 118 Multimedia Production <b>or</b>	
MULT 121 Digital Image Editing I: Introduction to Photoshop <b>or</b>	
MULT 122 Vector Image Editing <b>or</b>	
MULT 123 Digital Video <b>or</b>	
MULT 127 Creating User-Centered Websites <b>or</b>	
MULT 137 3D Animation I: Introduction to 3D Animation <b>or</b>	
MULT 139 3D Animation II: Character Design for Film and Video Game Production <b>or</b>	
MULT 141 3D Animation III: Realism, Physics and Particle Systems <b>or</b>	
MULT 143 3D Animation IV: 3D Short Film Production	6
<b>Total Units = 17</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

### Certificate of Performance: New Media Publishing\*

Successful completion of this program qualifies individuals for entry-level employment in the multimedia industry in multimedia publishing.

<b>Courses:</b>	<b>Units</b>
MULT 101 Introduction to Multimedia	4
MULT 112 Beginning Flash	4
MULT 121 Digital Image Editing I: Introduction to Photoshop	3
CBTE 161 Learning the Internet	1
<b>Total Units = 12</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Performance: Video Game Development\*

Upon successful completion of this certificate, students will be prepared for entry-level design and development positions in the video game industry.

<b>Courses:</b>	<b>Units</b>
MULT 116 Flash Game Development	4
MULT 120 Video Game Development I: Introduction to Game Design	3
MULT 137 3D Animation I: Introduction to 3D Animation	3
MULT 139 3D Animation II: Character Design for Film and Video Game Production	3
MULT 141 3D Animation III: Realism, Physics and Particle Systems	3
<b>Total Units = 16</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Achievement: Multimedia

### 3D Animation and Modeling

<b>Course Required for the Major:</b>	<b>Units</b>
MULT 101 Introduction to Multimedia	4
MULT 112 Beginning Flash	4
MULT 121 Digital Image Editing I: Introduction to Photoshop	3
MULT 123 Digital Video	3
MULT 127 Creating User-Centered Websites	3
MULT 137 3D Animation I: Introduction to 3D Animation	3
MULT 139 3D Animation II: Character Design for Film and Video Game Production	3
MULT 141 3D Animation III: Realism, Physics and Particle Systems	3
MULT 143 3D Animation IV: 3D Short Film Production	3

#### Select three units from:

ARTF 150A Two-Dimensional Design <b>or</b>	
ARTF 150B Beginning Graphic Design <b>or</b>	
ARTF 152 Color Theory <b>or</b>	
ARTF 155A Freehand Drawing I <b>or</b>	
ARTF 210A Life Drawing I	3
<b>Total Units = 32</b>	

## Certificate of Achievement: Multimedia

### Interactive Media Production

<b>Courses Required for the Major:</b>	<b>Units</b>
MULT 101 Introduction to Multimedia	4
MULT 112 Beginning Flash	4
MULT 114 Intermediate Flash	4
MULT 121 Digital Image Editing I: Introduction to Photoshop	3
MULT 123 Digital Video	3
MULT 127 Creating User-Centered Websites	3
MULT 137 3D Animation I: Introduction to 3D Animation	3
CBTE 165 Webpage Creation with Dreamweaver	3

#### Select one course from:

MULT 116 Flash Game Development <b>or</b>	
MULT 122 Vector Image Editing <b>or</b>	
MULT 139 3D Animation II: Character Design for Film and Video Game Production <b>or</b>	
MULT 141 3D Animation III: Realism, Physics and Particle Systems <b>or</b>	
MULT 143 3D Animation IV: 3D Short Film Production <b>or</b>	
ARTF 150A Two-Dimensional Design <b>or</b>	
ARTF 150B Beginning Graphic Design <b>or</b>	
ARTF 151 Three-Dimensional Design <b>or</b>	
ARTF 152 Color Theory	3-4

**Total Units = 30-31**

## Associate in Science Degree: Multimedia

<b>Courses Required for the Major:</b>	<b>Units</b>
MULT 101 Introduction to Multimedia	4
MULT 112 Beginning Flash	4
MULT 121 Digital Image Editing I: Introduction to Photoshop	3
MULT 123 Digital Video	3

#### Select eighteen through twenty units from:

ARTF 150A Two-Dimensional Design	3
ARTF 151 Three-Dimensional Design	3
ARTF 152 Color Theory	3
ARTF 210A Life Drawing I	3
MULT 114 Intermediate Flash	4
MULT 116 Flash Game Development	3
MULT 118 Multimedia Production	3
MULT 120 Video Game Development I: Introduction to Game Design	3
MULT 122 Vector Image Editing	3

MULT 127	Creating User-Centered Websites	3
MULT 137	3D Animation I: Introduction to 3D Animation	3
MULT 139	3D Animation II: Character Design for Film and Video Game Production	3
MULT 141	3D Animation III: Realism, Physics and Particle Systems	3
MULT 143	3D Animation IV: 3D Short Film Production	3
CBTE 161	Learning the Internet	1
CBTE 126	Document Processing	3

**Total Units = 32-34**

For graduation requirements see **Requirements for the Associate Degree** on 84.

**Electives as needed to help meet minimum of 60 units required for the degree.**

**Recommend Electives:** Art-Fine Art 100, 150A, 210A, Communications Studies 135, Computer and Information Science 190, English 101, Multimedia 114, 118, 127, 137, 139, 141, 143, Computer Business Technology 161, 126, Psychology 101.

## Music

Award Type	Units
<b>Certificate of Performance:</b>	
Music Composition	17.5
Music Technology	17.5
Music Theory	17.5
<b>Associate in Arts Degree:</b>	
Music, Basic Musicianship	27-30*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

The academic program in Music has been designed to provide students with the basic skills for most musical pursuits, yet to be flexible so that students may determine which music classes would be most suitable to meet their goals and needs. It is recommended that students seek advice from a member of the Music faculty.

### Student Learning Outcomes

Students who complete the Music Program will be able to:

- Demonstrate critical thinking through musical performances, reading music notation, using music technology, and communicating musical concepts using correct terminology.
- Demonstrate aural, aesthetic and cultural awareness through recognizing elements of music which are the product of and response to cultural values, traditions, and norms.
- Demonstrate aural, aesthetic, and cultural awareness through recognizing, comparing and discussing distinguishing elements of music and music literature.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Performance: Music Composition\*

Students may take the following selected courses considered necessary by the Music Department to pursuing music composition as a specialty within the discipline of music.

Courses:	Units
MUSI 123 Recital Hour	0.5
MUSI 190 The Electronic Music Studio	3
MUSI 202 Computer Music	3
MUSI 206A Projects in Composition	3
MUSI 206B Projects in Composition	3

#### Select one course from:

MUSI 158A Music Theory I	
MUSI 158B Music Theory II	
MUSI 258A Music Theory III	
MUSI 258B Music Theory IV	
	4

#### Select one course from:

MUSI 268A Beginning Ear Training Laboratory I	
MUSI 268B Beginning Ear Training Laboratory II	
MUSI 269A Advanced Ear Training Laboratory III	
MUSI 269B Advanced Ear Training Laboratory IV	
	1

**Total Units = 17.5**

### Certificate of Performance: Music Technology\*

Students may take the following selected courses considered necessary by the Music Department to pursuing careers in the music recording industry

or in music production as a specialty within the discipline of music.

<b>Courses:</b>		<b>Units</b>
MUSI 123	Recital Hour	0.5
MUSI 150A	Basic Musicianship	3
MUSI 190	The Electronic Music Studio	3
MUSI 201	Recording Arts	3
MUSI 202	Computer Music	3

**Select one course from:**

MUSI 205A	Projects in Electronic Music
MUSI 205B	Projects in Electronic Music
MUSI 206A	Projects in Composition
MUSI 206B	Projects in Composition
3	

**Select two course from:**

MUSI 115A	Class Piano I
MUSI 115B	Class Piano II
MUSI 132A	Classical Guitar I
MUSI 132B	Classical Guitar II
MUSI 215A	Class Piano III
MUSI 215B	Class Piano IV
2	

**Total Units = 17.5**

**Certificate of Performance: Music Theory\***

Students may take the following selected courses considered necessary by the Music Department to pursuing music composition as a specialty within the discipline of music. Satisfactory completion of MUSI 150A or equivalent is required as a prerequisite to enter the sequence of Music Theory courses beginning with MUSI 158A.

<b>Courses:</b>		<b>Units</b>
MUSI 123	Recital Hour	0.5

**Select three courses in sequence from:**

MUSI 158A	Music Theory I
MUSI 158B	Music Theory II
MUSI 258A	Music Theory III
MUSI 258B	Music Theory IV
12	

**Select three courses in sequence from:**

MUSI 268A	Beginning Ear Training Laboratory I
MUSI 268B	Beginning Ear Training Laboratory II
MUSI 269A	Advanced Ear Training Laboratory III
MUSI 269B	Advanced Ear Training Laboratory IV
3	

**Select two courses in sequence from:**

MUSI 115A	Class Piano I
MUSI 115B	Class Piano II
MUSI 215A	Class Piano III
MUSI 215B	Class Piano IV
2	

**Total Units = 17.5**

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

**Associate in Arts Degree: Music**

**Basic Musicianship**

<b>Courses Required for the Major:</b>		<b>Units</b>
**MUSI 150A	Basic Musicianship	3

**\*\*Music Theory - select eight units:**

MUSI 158A, 158B,	Music Theory I & II
MUSI 258A, 258B,	Music Theory III & IV
8	

**\*\*Ear Training - select two units:**

MUSI 268A, 268B,	Beginning Ear Training Lab I & II
MUSI 269A, 269B,	Advanced Ear Training Lab III & IV
2	

**Music History/Literature - select three units:**

MUSI 100	Introduction to Music
MUSI 101	Music History I (Miramar, Mesa)
MUSI 102	Music History II (Miramar, Mesa)
MUSI 105	Music of Our Time
MUSI 109	World Music
MUSI 110	Music for Elementary School Teachers
MUSI 111	Jazz-History and Development
MUSI 125	Music, The Arts, and Humanity
BLAS 120	Black Music
3	

**Electronic/Computer Music - select three units:**

MUSI 190	The Electronic Music Studio
MUSI 201	Recording Arts
MUSI 202	Computer Music
MUSI 205A, 205B,	Projects in Electronic Music
MUSI 206A, 206B,	Projects in Composition
3	

**Piano - select two units:**

MUSI 115A, 115B,	Class Piano I and II
MUSI 215A, 215B,	Class Piano III and IV
2	



**Private Study - select two to four units:**

MUSI 275A, 275B, 275C, 275D, Applied Music	
MUSI 276A, 276B, 276C, 276D,	
Individual Study (2 semesters required)	2-4

**Recital Hour (to be taken twice)**

MUSI 123 Recital Hour (each semester)	0.5
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**Performance Groups - select three to four units:**

MUSI 212A, 212B, 212C, 212D, Vocal Ensemble	
MUSI 214A, 214B, 214C, 214D, Concert Choir	
MUSI 250A, 250B, 250C, 250D, Concert Band	
MUSI 252 Concert Jazz Band	
MUSI 253A, 253B, 253C, 253D, Ensembles	
MUSI 254 Instrumental Ensemble	3-4

**Total Units = 27-30**

**Note:** Only one Music (MUSI) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Recommended electives** (as needed to help meet minimum of 60 units required for the degree): any of the classes listed above as well as Voice classes - Music 120, 121, 240, 241; Classical Guitar - Music 132A, 132B; foreign languages (Italian, German, French, or Spanish; maximum of 10 units).

\*\*Music 150A, Basic Musicianship, is the prerequisite to Music Theory and Ear Training classes. Because the latter are sequential classes and offered only during specific semesters, it is recommended that students take Music 150A during the summer prior to the fall semester in which they will be entering Mesa College. Students also have the option of testing out of Music 150A. Contact the Music Theory instructor to exercise this option 619-388-2809.

**Transfer Information**

Most four-year schools require that students' first two years of study include 1) music theory, 2) aural skills, 3) music history, 4) private study of voice or an instrument, 5) participation in a performance group, and 6) piano skills. Placement exams are given by these institutions to determine students' comprehension in these areas. The Music faculty's goal is to prepare students to transfer at the junior level following two years of attendance at Mesa College.

Computer skills have become an integral means by which to learn, teach, and create music. It is therefore strongly suggested that students first speak with a Mesa counselor. The following program of courses is recommended for transfer students. Students are urged, prior to transferring, to contact the school of their choice to verify required course work.

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

**Nursery and Landscape Technology**

Effective the fall of 1996, the Nursery and Landscape Technology certificate and degree programs were deactivated at Mesa College. Students who are in this major are advised to contact the Architecture Department chairperson to explore options for completing the certificate or degree program.

**Note:** Students interested in learning to design landscapes should see listings under Architecture for a certificate or degree in Landscape Architecture Technology.

**Nutrition**

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Performance:</b>	
Dietetic Service Supervisor	15
<b>Certificate of Achievement:</b>	
Nutrition	24-27
Nutrition and Fitness	17.5-22.5
<b>Associate in Arts Degree:</b>	
Nutrition	24-27*
Nutrition and Fitness	17.5-22.5*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

## Description

The Nutrition Program provides three excellent academic pathways in the field of dietetics and nutrition.

1. Courses transfer to a four-year institution in preparation to become a Registered Dietitian
2. A Dietetic Service Supervisor Certificate of Achievement
3. An Associate Degree

Students planning to transfer to a four-year institution should consult the Counseling Department and a Nutrition Advisor for assistance in program planning.

## Program Emphasis

Course work instructs students in the scientific principles of nutrition as it applies to achieving optimal health, controlling chronic diseases and managing food service.

## Career Options

Nutrition courses enable students to seek employment in the field of dietetics and nutrition. Some areas of employment include: healthcare, sports nutrition, education, research, food science and food service.

## Student Learning Outcomes

Students who complete the Nutrition Program will gain facility with:

- **Technological Awareness:** Students will be able to utilize current computer software to analyze macro and micro-nutrient contents of dietary intake.
- **Personal Actions:** Students will be able to apply scientific principles of food handling (sanitation and food safety) to food preparation and storage to reduce food-borne illnesses.
- **Critical Thinking:** Students will be able to evaluate student's eating habits based on nutrition knowledge learned in class.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Performance: Dietetic Service Supervisor\*

This curriculum is approved and certified by the California State Department of Public Health and prepares the student to function as a qualified dietetic service supervisor/manager in health care facilities. A student may not continue in the program with an unsatisfactory grade (D, F).

### Dietetic Supervisor Practice Requirement

Students accepted into this program will be required to successfully complete Dietetic Supervisor Practice/ food service-based courses held in health care facilities. These facilities may require background checks, including fingerprinting, as a condition of placement at the clinic. Refusal to submit to a background check, or failure to meet clearance criteria established by the health care facility, may prevent placement in the Dietetic Supervisor Practice/food service-based course and thus, it may not be possible to successfully complete the program. Health care facilities also require adherence to strict standards of conduct. Facilities may refuse educational access to any person who does not adhere to the facility's standards of safety, health and ethical behavior. This may be cause for removal from the program.

Courses:	Units
CACM 101 Sanitation, Safety and Equipment	3
CACM 115 Principles of Commercial Cooking	1
HOSP 115 Strategic Leadership in Hospitality	3
NUTR 91 Directed Clinical Practice	2
NUTR 150 Nutrition	3
NUTR 180 Nutrition and Diet Therapy	3
<b>Total Units = 15</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Certificate of Achievement: Nutrition

Courses Required for the Major:	Units
NUTR 150 Nutrition	3
NUTR 155 Advanced Nutrition	3
NUTR 160 Foods for Healthy Lifestyles	3
NUTR 170 Nutrition and Fitness	3
NUTR 180 Nutrition and Diet Therapy	3
NUTR 270 Work Experience	1-4

BIOL 107	General Biology-Lecture and Lab	4
CHEM 100	Fundamentals of Chemistry	3
CHEM 100L	Fundamentals of Chemistry Lab	1
<b>Total Units = 24-27</b>		

## Certificate of Achievement: Nutrition and Fitness

<b>Courses Required for the Major:</b>		<b>Units</b>
NUTR 150	Nutrition	3
NUTR 160	Foods for Healthy Lifestyles	3
NUTR 170	Nutrition and Fitness	3
NUTR 270	Work Experience	1-4
BIOL 160	Elements of Human Anatomy and Physiology	4
PHYE 103	Aerobic Dance	0.5-1.5
PHYE 123	Fitness Activities	0.5-1
PHYE 166	Weight Training	0.5-1
PHYE 242	Care and Prevention of Injuries	2
<b>Total Units = 17.5-22.5</b>		

## Associate in Science Degree: Nutrition

<b>Courses Required for the Major:</b>		<b>Units</b>
NUTR 150	Nutrition	3
NUTR 155	Advanced Nutrition	3
NUTR 160	Foods for Healthy Lifestyles	3
NUTR 170	Nutrition and Fitness	3
NUTR 180	Nutrition and Diet Therapy	3
NUTR 270	Work Experience	1-4
BIOL 107	General Biology-Lecture and Lab	4
CHEM 100	Fundamentals of Chemistry	3
CHEM 100L	Fundamentals of Chemistry Lab	1
<b>Total Units = 24-27</b>		

## Associate in Science Degree: Nutrition and Fitness

<b>Courses Required for the Major:</b>		<b>Units</b>
NUTR 150	Nutrition	3
NUTR 160	Foods for Healthy Lifestyles	3
NUTR 170	Nutrition and Fitness	3
NUTR 270	Work Experience	1-4
BIOL 160	Elements of Human Anatomy and Physiology	4
PHYE 103	Aerobic Dance	0.5-1.5
PHYE 123	Fitness Activities	0.5-1
PHYE 166	Weight Training	0.5-1
PHYE 242	Care and Prevention of Injuries	2
<b>Total Units = 17.5-22.5</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

### Nutrition and Fitness Option

**Recommended Electives:** Nutrition 290, 296; Health Education 131; Computer Business Technology 120; Fashion 190.

### Nutrition Option

**Recommended Electives:** Child Development 141; Computer Business Technology 120; Psychology 101; Sociology 101; Fashion 190.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Philosophy

<b>Award Type</b>	<b>Units</b>
<b>Associate in Arts Degree:</b>	
Philosophy	21*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

Philosophy is the practice of developing the skills and strategies for answering fundamental questions about human existence. Philosophers analyze the concepts through which we acquire knowledge of reality and in terms of which human actions and practices acquire value and meaning. Students are exposed to both the history of discussions of these topics as well as contemporary treatments in order

to foster an understanding of how these discussions are related to contemporary life. Philosophers use reasoned argument to evaluate beliefs, focusing especially on what evidence there is for a belief, whether it fits well with other beliefs or contradicts them, and whether we can prove it or disprove it.

### Program Emphasis

The Philosophy curriculum prepares students for transfer to four-year institutions and also meets the general education Humanities area requirement for the associate degree.

### Career Options

Most careers in this list require education beyond the associate degree. A sample list of careers in which background knowledge of philosophy is appropriate include: education, human service vocations, law, management, medicine, publishing, scientific research, and theology.

### Student Learning Outcomes

Students who complete the Philosophy Program will be able to:

- Think critically in reading about topics in philosophy, thereby identifying problems, theses, arguments, evidence and conclusions;
- Think critically in writing about topics in philosophy, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions; and
- Think critically in speaking about topics in philosophy, thereby articulating problems, starting theses, posing arguments, explaining evidence, and communicating conclusions.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Associate in Arts Degree: Philosophy

Courses Required for the Major:		Units
PHIL 101	Symbolic Logic	3
PHIL 102A	Introduction to Philosophy: Reality & Knowledge, <b>and</b>	
PHIL 102B	Introduction to Philosophy: Values, <b>or</b>	
PHIL 104A	History of Western Philosophy <b>and</b>	

PHIL 104B	History of Western Philosophy	6
HIST 100 and HIST 101, World History I & II, <b>or</b>		
HIST 105 and HIST 106, Introduction to Western Civilization I & II		6

#### Select six units from the following:

PHIL 100	Logic and Critical Thinking	
PHIL 103	Historical Introduction to Philosophy	
PHIL 106	Asian Philosophy	
PHIL 107	Reflections on Human Nature	
PHIL 108	Perspectives on Human Nature and Society	
PHIL 109	Issues in Social Philosophy	
PHIL 110	Philosophy of Religion	
PHIL 111	Philosophy in Literature	
PHIL 112	Philosophy of Science	
PHIL 125	Philosophy of Women	
PHIL 296	Individualized Instruction in Philosophy	
		6

**Total Units = 21**

**Note:** Only one Philosophy (PHIL) course from the above list may be used to satisfy SDCCD general education requirements.

\*Some campuses might not offer all courses.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

#### Electives as needed to meet minimum of 60 units required for the degree:

**Recommended Electives:** Fine Arts 100, 110, 111; Anthropology 103; Black Studies 116, 145A, 145B; Economics 120, 121; English 205 or higher; History 109, 110; Humanities 101, 102; Languages (an 8-unit sequence); Music 100, 105, 125; Political Science 101, 102, 103, 140; Philosophy 105 and above; Psychology 101, 121, 123, 207; Sociology 101, 110.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency**

*in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.*

## Physical Education

Award Type	Units
<b>Certificate of Achievement:</b> Fitness Specialist	18
<b>Associate in Arts Degree:</b> Physical Education	21-24*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

The Physical Education Department offers a diverse curriculum which includes lower division theory courses designed for those who want to complete their Associate in Arts degree in Physical Education and transfer to an institution of higher learning.

The Curriculum includes a basic instruction program which provides students a wide variety of movement experiences for the development of physical activity skills, knowledge, and fitness necessary for lifetime wellness; an adapted activities curriculum for students with disabilities; and an intercollegiate athletic program, which offers performance-oriented students opportunities for competition.

### Student Learning Outcomes

Students who complete the Physical Education Program will be able to:

- Identify, analyze, assess, value and implement (physical, fitness) activities, wellness strategies and principles in support of a healthy lifestyle.
- Apply critical thinking skills in the quantitative and qualitative analysis of (successful) skill development, proper technique, physiological principles and kinesthetic awareness in activities related to physical education, dance and athletics.
- Utilize current technology to research and compile information in health and wellness, human performance and athletic competition.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Fitness Specialist Certificate Program\*

Students in this program will be trained to be group exercise leaders and personal trainers. Students in this program will learn the principles of exercise and physical conditioning, techniques of leading exercise classes, appropriate methods of establishing healthy behavior and the designing of personalized exercise prescriptions. They will be able to develop safe, effective exercise plans for a variety of clients.

The Fitness Specialist certificate program trains students for positions, entry-level or higher, in the growing fitness industry.

Graduates will be qualified to be exercise testing technicians, fitness instructors, strength training instructors, aerobic instructors, and personal fitness trainers.

The fitness industry continued to experience growth and has an ongoing need for trained instructors and trainers in health clubs, fitness centers, and sports medicine clinics.

Please note that students enrolled in an occupational program must earn a grade of "C" or better in courses required for the major.

### Certificate of Achievement: Physical Education

#### Fitness Specialist

Courses Required for the Major:		Units
PHYE 242	Care & Prevention of Injuries	2
PHYE 280	Applied Exercise Physiology	2
PHYE 281	Applied Kinesiology	2
PHYE 282	Techniques of Weight Training	2
PHYE 283	Exercise & Fitness Assessment	2
PHYE 284	Fitness & Sports Nutrition	2
PHYE 285	Exercise for Special Populations	2
PHYE 286	Techniques of Exercise Leadership	2
PHYE 287	Fitness Specialist Internship	2
<b>Total Units = 18</b>		

\*This program prepares candidates for American College of Sports Medicine (ACSM) or American Council of Exercise (ACE) certification exams.

### Associate in Arts Degree: Physical Education

Courses Required for the Major:		Units
PHYE 240	Physical Education in the Elementary Schools	3

PHYE 241	Introduction to Exercise Science/ Physical Education	2
PHYE 242	Care & Prevention of Injuries	2

**Physical Education Activity:**

**Choose a minimum of six (6) different activities from the following:**

Aquatic Activities, Dance Activities, Individual and Dual Activities (one course to be chosen from badminton, racquetball, or tennis), Team Sports		
BIOL 230	Human Anatomy	4
BIOL 235	Human Physiology	4

**Total Units = 21-24**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** The four-year institution expects the transfer physical education major student to exhibit intermediate skill level in from 10 to 16 physical activities. Therefore, the student should select a variety of activity courses to complete the lower-division requirements. Additional courses may be selected as electives from the following: Health Education 131, 190; Physical Education 103, 106, 108, 111, 112, 115, 119, 120, 123, 125, 126, 132, 135, 139, 140, 141, 142, 149, 151, 154, 155, 159, 160, 161, 163, 164, 166, 171, 172, 181A, 182, 184, 202, 203, 204, 205, 206, 207, 210, 211, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 233, 242, 250A, 250B, 251A, 251B, 252A, 252B, 253A, 253B, 254A, 254B, 255A, 255B, 257A, 257B, 258A, 258B, 280, 281, 282, 283, 284, 285, 286, 287, 290; Psychology 101, 258.

**Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Physical Sciences

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Achievement:</b> Physical Sciences (General)	35
<b>Associate in Science Degree:</b> Physical Sciences (General)	35*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

**Description**

Physical Sciences is a multidisciplinary program promoting an appreciation for various disciplines such as physics, chemistry, astronomy and earth sciences by exposing students to various methodologies.

**Program Emphasis**

The Physical Sciences Program prepares students for transfer to four-year institutions. Students may acquire skills for employment in science education and science journalism.

**Career Options**

Most careers in physical sciences require education beyond the associate degree and some require a graduate degree. Careers utilizing physical sciences are lab technician, teacher at elementary or secondary level and science journalist.

**Student Learning Outcomes**

Students who complete the Physical Sciences Program will be able to:

- Think critically by analyzing problems, weighing evidence, and drawing conclusions. The student will utilize both inductive and deductive reasoning in these efforts.
- Articulate critical thinking outcomes in writing.
- Assess the value of technology in the endeavor to understand the natural world. In laboratory settings, the student will employ technology in the gathering of evidence about the natural world and in the analysis of that evidence.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: Physical Sciences (General)

### Courses Required for the Major: Units

GEOL 100	General Geology	3
GEOL 101	General Geology Lab	1

### At least four units from the following:

ASTR 101	Descriptive Astronomy	
ASTR 109	Practice in Observing	
ASTR 111	Astronomy Laboratory	
		4

### At least eight units from the following:

CHEM 100	Fundamentals of Chemistry	
CHEM 100L	Fundamentals of Chemistry Lab	
CHEM 130	Introduction to Organic & Biological Chemistry	
CHEM 130L	Introduction to Organic & Biological Chemistry Lab	
CHEM 152	Introduction to General Chemistry	
CHEM 152L	Introduction to General Chemistry Lab	
CHEM 200	General Chemistry I Lecture	
CHEM 200L	General Chemistry I Lab	
CHEM 201	General Chemistry II Lecture	
CHEM 201L	General Chemistry II Lab	
		8

### At least three units from the following:

GEOG 101	Physical Geography	3
GEOG 101L	Physical Geography Lab	1

### At least eight units from the following:

PHYS 100	Introductory Physics	
PHYS 180A	General Physics I (City)	
PHYS 181A	General Physics I Lab (City)	
PHYS 180B	General Physics II (City)	
PHYS 181B	General Physics II Labs (City)	
PHYS 125	General Physics	
PHYS 126	General Physics II	
PHYS 195	Mechanics	
PHYS 196	Electricity & Magnetism	
PHYS 197	Waves, Optics, & Modern Physics	
		8

### At least eight units from the following:

MATH 96	Intermediate Algebra with Geometry	
MATH104	Trigonometry	
MATH 118	A Survey of Modern Mathematics	
MATH 119	Elementary Statistics	
MATH 141	Precalculus	
MATH 150	Calculus with Analytic Geometry I	
MATH 151	Calculus with Analytic Geometry II	

MATH 252	Calculus with Analytic Geometry III	8
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**Total Units = 35**

## Associate in Science Degree: Physical Sciences (General)

### Courses Required for the Major: Units

GEOL 100	General Geology	3
GEOL 101	General Geology Lab	1

### At least four units from the following:

ASTR 101	Descriptive Astronomy	
ASTR 109	Practice in Observing	
ASTR 111	Astronomy Laboratory	
		4

### At least eight units from the following:

CHEM 100, 100L	Fundamentals of Chemistry and Lab	
CHEM 130	Introduction to Organic & Biological Chemistry	
CHEM 130L	Introduction to Organic & Biological Chemistry Lab	
CHEM 152	Introduction to General Chemistry	
CHEM 152L	Introduction to General Chemistry Lab	
CHEM 200	General Chemistry I Lecture	
CHEM 200L	General Chemistry I Lab	
CHEM 201	General Chemistry II Lecture	
CHEM 201L	General Chemistry II Lab	
		8

### At least three units from the following:

GEOG 101	Physical Geography	3
GEOG 101L	Physical Geography Lab	1

### At least eight units from the following:

PHYS 100	Introductory Physics	
PHYS 180A	General Physics I (City)	
PHYS 181A	General Physics I Lab (City)	
PHYS 180B	General Physics II (City)	
PHYS 181B	General Physics II Labs (City)	
PHYS 125	General Physics	
PHYS 126	General Physics II	
PHYS 195	Mechanics	
PHYS 196	Electricity & Magnetism	
PHYS 197	Waves, Optics, & Modern Physics	
		8

### At least eight units from the following:

MATH 96	Intermediate Algebra with Geometry	
MATH 104	Trigonometry	
MATH 118	A Survey of Modern Mathematics	
MATH 119	Elementary Statistics	
MATH 141	Precalculus	
MATH 150	Calculus with Analytic Geometry I	

MATH 151	Calculus with Analytic Geometry II	
MATH 252	Calculus with Analytic Geometry III	8
<b>Total Units = 35</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 84.

### **Electives (Mesa College) as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Astronomy 101, 109, 111, 290; Biology 107; Chemistry 100, 100L, 130, 130L, 152, 152L, 160, 161, 200, 200L, 201, 201L, 231, 231L, 233, 233L, 251, 255, 290, 296; Communication Studies 103; Computer and Information Sciences 150; Economics 120; Engineering 115, 151, 200, 210, 250, 260, 270; Geography 101, 101L, 102, 290, 296; Geology 290, 296; Mathematics 96, 104, 118, 119, 141, 150, 151; Physical Sciences 100, 101, 290, 296; Physics 100, 125, 126, 195, 196, 197, 290.

### **Transfer Information**

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Physical Therapist Assistant

<b>Award Type</b>	<b>Units</b>
<b>Associate in Science Degree:</b>	
Physical Therapist Assistant	33.5*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### **Description**

The Physical Therapist Assistant Program prepares the student for employment as a physical therapist

assistant. The physical therapist assistant, working under the supervision of a registered physical therapist, assists in the provision of physical therapy services, such as electrotherapy, hydrotherapy, thermotherapy, massage, therapeutic exercise and rehabilitation activities.

The program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (1111 North Fairfax, Alexandria, VA., 1-800-999-APTA) and approved by the Physical Therapy Board of California. Graduates are eligible to take the examination for licensure as a physical therapist assistant.

A grade of "C" or better must be maintained in all courses to continue in the program. Course repetition in this program is not permitted. The program is governed by the Allied Health Department Policies.

Eligibility for enrollment in this program is determined by a special admission procedure. Interested persons should call the Special Programs Admissions Clerk in the Admissions Office, 619-388-2684.

### **Statement of Goals**

At the completion of the program's curriculum, the job-ready graduate will be able to work safely and effectively under the supervision of a physical therapist.

### **Career Options**

Employment as physical therapist assistant after passing state-administered national examination.

### **Student Learning Outcomes**

Students who complete the Physical Therapist Assistant Program will be able to:

- Perform safe and effective interventions and data collection within the Physical Therapist Assistant (PTA) scope of practice.
- Select appropriate interventions within the physical therapist's plan of care.
- Be knowledgeable of the California physical therapy laws and regulations as they relate to the PTA.
- Demonstrate ethical and professional behaviors consistent with professional standards and practice.



- Communicate effectively, both verbally and in writing as appropriate for a PTA.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Directed Clinical Practice Requirement

Students accepted into this program will be required to successfully complete DCP, clinically-based courses held in health care facilities. These facilities may require background checks, including fingerprinting and drug screening, as a condition of placement at the clinic.

Refusal to submit to a background check, or failure to meet clearance criteria established by the health care facility, may prevent placement in DCP courses and thus, it may not be possible to successfully complete the program.

Health care facilities also require adherence to strict standards of conduct. Facilities may refuse educational access to any person who does not adhere to the facility's standards of safety, health and ethical behavior. This may be cause of removal from the program.

### Associate in Science Degree: Physical Therapist Assistant

Completion of BIOL 160 (or BIOL 230 & 235) is required prior to application.

Courses Required for the Major:		Units
PHYR 110	Physical Therapy Introduction	2
PHYR 114	Introduction To Human Movement	3
PHYR 116	Physical Therapy Techniques I	2
PHYR 116L	Physical Therapy Techniques I	2
PHYR 122	Introduction to Pathology	3
PHYR 123	Introduction to Therapeutic Exercise	2
PHYR 126	Physical Therapy Techniques II	2
PHYR 126L	Physical Therapy Techniques II	2
PHYR 137	Orthopedic Exercise and Rehabilitation	2
PHYR 137L	Orthopedic Rehabilitation and Exercise	2
PHYR 138	Topics in Neurology and Rehabilitation	1.5
PHYR 138L	Topics in Neurology and Rehabilitation	1
PHYR 141	Organization of Physical Therapy	2
PHYR 142A	Directed Clinical Practice	2
PHYR 143A	Directed Clinical Practice	5

**Total Units = 33.5**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Physics

Award Type	Units
<b>Certificate of Achievement:</b>	
Physics	35
<b>Associate in Science Degree:</b>	
Physics	35*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

Upon completion of the required pattern of physics courses and other degree graduation requirements an Associate in Science Degree in Physics will be granted. A certificate program is also offered in physics.

### Emphasis

The Physics Program permits the student to fulfill the lower division physics requirements for transfer programs to four-year institutions as well as providing a fundamental basis in education necessary for scientists and engineers.

### Career Options

Most careers in physics require education beyond the associate degree and some require a graduate degree. Career options utilizing physics include research, academia, optical and laser physics, and medical physics, as well as industrial and environmental applications.

### Student Learning Outcomes

Students who complete the Physics Program will be able to:

- Utilize proper physics concepts and the relations among them to analyze problems qualitatively and quantitatively.
- Critically apply the principle of conservation of energy in the study of motions.

- Compose laboratory reports that describe the theory and experimental procedures, record and analyze data, and present conclusions and discussions.
- Write solutions to physics problems that identify the assumptions and input, define symbols in equations, and detail the procedure of solving the equations.
- Describe and explain the principles of operation of selected physical devices.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: Physics

Courses Required for the Major:		Units
PHYS 195	Mechanics	5
PHYS 196	Electricity & Magnetism	5
PHYS 197	Waves, Optics, & Modern Physics	5

### Plus 20 units selected from the following:

CHEM 200	General Chemistry I - Lecture	3
CHEM 200L	General Chemistry I - Lab	2
CHEM 201	General Chemistry II - Lecture	3
CHEM 201L	General Chemistry II - Lab	2
MATH 141	Precalculus	5
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4

**Total Units = 35**

## Associate in Science Degree: Physics

Courses Required for the Major:		Units
PHYS 195	Mechanics	5
PHYS 196	Electricity & Magnetism	5
PHYS 197	Waves, Optics, & Modern Physics	5

### Plus 20 units selected from the following:

CHEM 200	General Chemistry I - Lecture	3
CHEM 200L	General Chemistry I - Lab	2
CHEM 201	General Chemistry II - Lecture	3
CHEM 201L	General Chemistry II - Lab	2
MATH 141	Precalculus	5
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4

**Total Units = 35**

**Note:** Only one Physics (PHYS) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

### Electives (Mesa College) as needed to meet minimum of 60 units required for the degree:

**Recommended Electives:** Astronomy 101, 109, 111, 290; Biology 107; Chemistry 100, 100L, 130, 130L, 152, 152L, 160, 161, 200, 200L, 201, 201L, 231, 231L, 233, 233L, 251, 255, 290, 296; Communication Studies 103; Computer and Information Sciences 150; Economics 120; Engineering 115, 151, 200, 210, 250, 260, 270; Geography 101, 101L, 102, 290; Geology 290, 296; Mathematics 96, 104, 118, 119, 141, 150, 151; Physical Sciences 100, 101, 290, 296; Physics 100, 125, 126, 195, 196, 197, 290.

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Political Science

Award Type	Units
<b>Associate in Arts Degree:</b>	
Political Science	18*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

Political science is the study of human behavior as it relates to political situations. It involves the examination of institutions, processes, people, ideas and policies. The study of political science develops

critical thinking, cultural literacy, and other skills important for an active and informed citizenry.

The primary objectives of the Political Science program are to meet the American Institutions and general education requirements for associate and baccalaureate degrees.

### Program Emphasis

The primary focus is on offering relevant courses that lead to well-developed critical thinking skills, contribute to the development of active, informed citizenry, and that fulfill General Education requirements (AA and transfer level), or lower division preparation for Political Science major requirements at four year institutions.

### Career Options

Most careers in political science require education beyond the associate degree and some require a graduate degree. This is not a comprehensive list but some of the most common career options with political science preparation include: public administrator, budget analyst, city planner, diplomatic corps member, elected official, legislative aide, journalist, lawyer, lobbyist, political scientist, public opinion surveyor, teacher and writer.

### Student Learning Outcomes

Students who complete the Political Science Program will be able to:

- Think critically in reading about topics in politics, thereby identifying problems, theses, arguments, evidence and conclusions;
- Think critically in writing about topics in politics, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions; and
- Think critically in speaking about topics in politics, thereby articulating problems, starting theses, posing arguments, explaining evidence, and communicating conclusions.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Associate in Arts Degree: Political Science

Courses Required for the Major:		Units
POLI 101	Introduction to Political Science	3

POLI 102	The American Political System	3
POLI 103	Comparative Politics	3
HIST 100	World History I, <b>and</b>	
HIST 101	World History II, <b>or</b>	
HIST 105	Introduction to Western Civilization I <b>and</b>	
HIST 106	Introduction to Western Civilization II	6
MATH 119	Elementary Statistics	3

**Total Units = 18**

**Note:** Only one Political Science (POLI) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Anthropology 102, 103; Economics 120, 121; Geography 102, 104, 154; Philosophy 103, or 104A and 104B; Political Science 140, 290, 296; Psychology 155; Sociology 101, 110.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Psychology

Award Type	Units
<b>Certificate of Achievement:</b>	
Mental Health Advocate/Aide	22-24
<b>Associate in Arts Degree:</b>	
Psychology	18*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

## Description

The Psychology program is suited to the needs of both the two year student and the transfer student who plan to major or minor in Psychology or related fields. It will provide the student with a greater understanding of behavior. Upper division and graduate studies can lead to vocations in teaching, research, counseling, and other areas. An upper division minor in Psychology may be an important asset to majors in other fields.

## Student Learning Outcomes

Students who complete the Psychology Program will be able to:

- Analyze problems and information related to human behavior and mental processes using the scientific approach, and apply psychological concepts and theories to the understanding of diverse personal and social issues.
- Be familiar with the sub-fields of psychology and articulate similarities and differences among people as they relate to the nature of the discipline.
- Compare and contrast the different research methods used by psychologists as a scientific discipline.
- Articulate/demonstrate ideas related to human behavior and mental processes in writing and/or speaking or by other modes of communication.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Achievement: Mental Health Advocate/Aide

### Program Description:

The Mental Health Advocate/Aide Certificate of Achievement is designed to provide students with the skills required for variety of mental health majors. Emphasis is placed on introducing students to basic theories of psychology and counseling as well as self-care skills, healthy coping mechanisms and cultural competencies. The fieldwork requirement provides students with opportunities to familiarize themselves with human care services and social service agencies.

## Program Goals:

The one-year, 24-unit Mental Health Advocate/Aide Certificate of Achievement provides veterans, displaced workers and all students with transfer options. Upon completion of the certificate program, students may complete additional course work leading to an Associate Degree and/or transfer to a four-year college or university. Common university majors in this field include: psychology, mental health counseling, mental health applications, counseling, and human services.

<b>Courses Required for the Major:</b>		<b>Units</b>
PERG 140	Life Skills and Personal Adjustment	1-3
PSYC 101	General Psychology	3
PSYC 112	Interpersonal Relations	3
PSYC 125	Introduction to Behavior Modification	3
PSYC 155	Introduction to Personality	3
PSYC 161	Introduction to Counseling	3
PSYC 245	Abnormal Psychology	3
PSYC 276	Field Work in Psychological Services	3

**Total Units = 22-24**

**Note: Students are advised to take the following courses before beginning the program:**

**Recommended Electives:** Psychology 258 and 259.

## Associate in Arts Degree: Psychology

<b>Courses Required for the Major:</b>		<b>Units</b>
PSYC 101	General Psychology	3

**Psychology Electives (as selected from the transferable Psychology electives offered within the district as listed below):**

PSYC 111	Psychological/Social Aspects of Aging, Death and Dying	3
PSYC 112	Interpersonal Relations	3
PSYC 121	Introduction to Child Psychology	3
PSYC 125	Introduction to Behavior Modification	3
PSYC 128	Biofeedback and Stress Management	3
PSYC 135	Marriage and Family Relations	3
PSYC 137	Human Sexual Behavior	3
PSYC 155	Introduction to Personality	3
PSYC 161	Introduction to Counseling	3
PSYC 165	Theories of Consciousness	3
PSYC 211	Learning	3
PSYC 230	Psychology of Lifespan Development	3
PSYC 245	Abnormal Psychology	3
PSYC 255	Introduction to Psychological Research	3
PSYC 258	Behavioral Science Statistics <b>or</b>	

MATH 119	Elementary Statistics	3
PSYC 260	Introduction to Physiological Psychology	3
PSYC 262	Health Psychology	3
PSYC 270	Work Experience	1-4
PSYC 276	Field Work in Psychological Services	3
PSYC 290	Independent Study	1-3
PSYC 296	Individualized Instruction in Psychology	0.5 - 2
<b>Total Units = 18</b>		

**Note:** Only one Psychology (PSYC) course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Psychology Electives:** English 101, 105, Communication Studies 103 or 135, Philosophy 100, 102A, 102B, Computer and Information Science 150.

**Other Recommended Electives:** Mathematics courses numbered 104 through 252; Natural Sciences (Life Sciences: Biology; Physical Sciences) - Laboratory courses from either of the above; and Foreign Language (although no courses in a foreign language are specified in the above course sequence, a minimal familiarity with one foreign language is desirable. The particular language should be selected in consultation with the Behavioral Sciences Department).

Transfer students planning to major or minor in Psychology should select: Psychology 211, 258 (or Mathematics 119), and Psychology 260.

\*Although no courses in a foreign language are specified in the above course sequence, a minimal familiarity with one foreign language is desirable. The particular language should be selected in consultation with the Behavioral Sciences Department.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the**

**transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Radiologic Technology

Award Type	Units
<b>Certificate of Achievement:</b>	
Radiologic Technology	53
<b>Associate in Science Degree:</b>	
Radiologic Technology	53*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

The program prepares the student for certification as a full diagnostic radiographer. Training includes operation of X-ray equipment, exposing and processing films, applying protective shields, positioning patients, ethics, patient care with the radiology department and optional exposure to either nuclear medicine or radiation therapy and ultrasound. The program will also include 23 units of directed clinical practice which satisfies the required hours of clinical practice. The program is 24 months in length, including two summer sessions. Upon completion of the program the student will be given a certificate of achievement (AS degree optional) and may apply for registration by the American Registry of Radiologic Technologists and for certification by the State of California. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

A grade of "C" or better must be maintained in all courses to continue in the program. Course repetition in this program is not permitted. The program is governed by the Allied Health Department Policies.

Eligibility for enrollment in this program is determined by a special admission procedure.

Interested persons should call the Special Programs Admissions Clerk in the Admissions Office 619-388-2684.

Satisfactory completion of Biology 160, English 101, Computer and Information Sciences 150 or 181, Math 46, and Psychology 111 or 101 or MEDA 102, or their equivalents and fulfillment of the special admissions procedure will be required before admission to the program.

### Student Learning Outcomes

Students who complete the Radiologic Technology Program will be able to:

- Communicate effectively with patients and other healthcare professionals.
- Demonstrate independent critical thinking and problem solving skills.
- Apply the knowledge and skills to be clinically competent.
- Exhibit or demonstrate the skills of ethical and professional radiologic technologists.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Directed Clinical Practice Requirement

Students accepted into this program will be required to successfully complete DCP, clinically-based courses held in health care facilities. These facilities may require background checks, including fingerprinting and drug screening, as a condition of placement at the clinic.

Refusal to submit to a background check, or failure to meet clearance criteria established by the health care facility, may prevent placement in DCP and thus, it may not be possible to successfully complete the program.

Health care facilities also require adherence to strict standards of conduct. Facilities may refuse educational access to any person who does not adhere to the facility's standards of safety, health and ethical behavior. This may be cause of removal from the program.

### Program Goals

At the completion of the program's curriculum, the job-ready graduate will be able to work safely and effectively in a radiology department.

### Program Emphasis

Exposes students to all aspects of the radiology profession. Students must show safe, competent administration of radiology services.

### Certificate of Achievement: Radiologic Technology

Completion of BIOL 160, ENGL 101, MATH 46, CISC 150 or CISC 181, and PSYC 111 or PSYC 101 OR MEDA 102 are required prior to application.

<b>Courses Required for the Major:</b>		<b>Units</b>
RADT 105	Basic Radiologic Technology	3
RADT 110	Recording Media and Processing	2
RADT 120A	Radiographic Exposure	2
RADT 120B	Radiographic Exposure Laboratory	1
RADT 130	Patient Care	2
RADT 199	Radiographic Positioning I	2
RADT 200	Radiographic Positioning II	2
RADT 211	Radiographic Positioning III	2
RADT 220	Radiographic Technique	3
RADT 230	Radiologic Science	2
RADT 240	Radiation Biology	1
RADT 241	Sectional Anatomy	1
RADT 242	Organization of Radiology	1
RADT 244	CT and MRI Imaging	3
RADT 251A	Directed Clinical Practice	3
RADT 251C	Directed Clinical Practice	3
RADT 252A	Directed Clinical Practice	5
RADT 252B	Directed Clinical Practice	5
RADT 253A	Directed Clinical Practice	5
RADT 253B	Directed Clinical Practice	5

**Total Units = 53**

**Recommended Electives:** Radiologic Technology 248.

### Associate in Science Degree: Radiologic Technology

Completion of BIOL 160, ENGL 101, MATH 46, CISC 150 or CISC 181, and PSYC 111 or PSYC 101 OR MEDA 102 are required prior to application.

<b>Courses Required for the Major:</b>		<b>Units</b>
RADT 105	Basic Radiologic Technology	3
RADT 110	Recording Media and Processing	2
RADT 120A	Radiographic Exposure	2
RADT 120B	Radiographic Exposure Laboratory	1
RADT 130	Patient Care	2
RADT 199	Radiographic Positioning I	2
RADT 200	Radiographic Positioning II	2
RADT 211	Radiographic Positioning III	2

RADT 220	Radiographic Technique	3
RADT 230	Radiologic Science	2
RADT 240	Radiation Biology	1
RADT 241	Sectional Anatomy	1
RADT 242	Organization of Radiology	1
RADT 244	CT and MRI Imaging	3
RADT 251A	Directed Clinical Practice	3
RADT 251C	Directed Clinical Practice	3
RADT 252A	Directed Clinical Practice	5
RADT 252B	Directed Clinical Practice	5
RADT 253A	Directed Clinical Practice	5
RADT 253B	Directed Clinical Practice	5

**Total Units = 53**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Radiologic Technology 248.

## Real Estate

Award Type	Units
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<b>Associate in Science Degree:</b> Real Estate	27-28*
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\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

The Real Estate Program offers students the following options: a Certificate of Performance for Real Estate Salesperson or; a Certificate of Achievement for Real Estate Broker; and an Associate in Science degree in Real Estate. Students planning to transfer to a four-year college or university should select the Business Administration major on page 152.

### Student Learning Outcomes

Students who complete the Real Estate Program will gain facility with:

- **Communication:** Students will be able to articulate and explain critical thinking outcomes in writing and speaking, as well as by other contemporary recognized modes of business communication.

- **Self-awareness and Interpersonal Skills:** Students will recognize and respect the business opinions and perspectives of others, and they will be able to work effectively with superiors, peers, and subordinates in organized group settings.
- **Personal Actions and Civic Responsibility:** Students will be able to analyze and accept responsibility for their own actions and make ethical decisions in the business environment.
- **Technological Awareness:** Students will understand and apply the use of modern technology to business situations.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Science Degree: Real Estate

Courses Required for the Major:	Units	
*REAL 101	Real Estate Principles	3
REAL 105	Legal Aspects of Real Estate I	3
REAL 110	Principles of Real Estate Appraisal I	3
REAL 115	Real Estate Finance I	3
REAL 120	Real Estate Practice	3
REAL 125	Real Estate Economics	3
BUSE 119	Business Communications	3

**Six to seven units to be selected from the following:**

ACCT 102	Basic Accounting (City)	3
ACCT 116A	Financial Accounting	4
BUSE 140	Business Law & the Legal Environment	3
REAL 130	Real Property Management	3
REAL 140	Real Estate Appraisal II	3

**Total Units = 27-28**

**Real Estate Salesperson's License: \*Required prior to taking exam for Real Estate Salesperson's License.**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Accounting 116A and 116B; Business 140, 201; Economics 120, 121; Escrow 101, 111; Marketing 100, 105; Mathematics 119; Psychology 101; Real Estate 130, 270.

# Social Sciences

Award Type	Units
<b>Certificate of Performance:</b>	
Global Culture Studies	15
<b>Associate in Arts Degree:</b>	
Social Sciences - General	18*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

## Description

Social Sciences is a multidisciplinary program promoting an appreciation for the interrelatedness of Geography, History, Philosophy and Political Science by exposing students to their varied methodologies. The Social Science Program prepares students for transfer into either a major in Social Sciences or for the single subject teaching credential at four year institutions.

## Program Emphasis

Courses in this program emphasize student learning outcomes, such as the development of critical thinking and communications skills to analyze problems, conceptualize theses, develop arguments, weigh evidence and derive conclusions; development of the ability to articulate the critical thinking outcomes through writing and/or speaking or by other modes of communication; and the development of an awareness of civic responsibilities and a thorough knowledge of global issues.

## Career Options

Most careers in Social Sciences require education beyond the associate degree and some require a graduate degree. This is not a comprehensive list, but some of the most common career options utilizing social science preparation include: teaching, law, social work, public administration, librarianship, counseling, and business.

## Student Learning Outcomes

Students who complete the Social Sciences Program will be able to:

- Demonstrate critical thinking skills, encompassing the framing of questions;

the formation of hypotheses; the gathering, weighing, and interpretation of evidence; and the deriving of conclusions;

- Communicate effectively, in written and other expressive forms, by using enhanced critical thinking skills;
- Show, in thought and all forms of expression, heightened awareness of the role of civic responsibility and global awareness in sustaining human society.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Certificate of Performance: Global Culture Studies\*

This certificate is designed for students interested in global issues, including students seeking an understanding of mankind's cultural heritage, cultural geography, and an appreciation of intercultural communication processes. This certificate will complement courses taken in other multi-cultural academic areas and includes transfer general education courses.

Courses:	Units
HUMA 101 Introduction to the Humanities I	3
HUMA 102 Introduction to the Humanities II	3
ANTH 103 Introduction to Cultural Anthropology	3
COMS 180 Intercultural Communication	3
<b>Select one of the following:</b>	
GEOG 102 Cultural Geography	
GEOG 104 World Regional Geography	
	<b>3</b>
<b>Total Units = 15</b>	

\* A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

## Associate in Arts Degree: Social Sciences (General)

Courses Required for the Major:	Units
HIST 100 World History I <b>and</b>	
HIST 101 World History II, <b>or</b>	
HIST 105 Introduction to Western Civilization I <b>and</b>	



HIST 106	Introduction to Western Civilization II	6
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**Select a six-unit sequence from two of the following different fields:**

GEOG 102	Cultural Geography <b>and</b>	
GEOG 104	World Regional Geography	
HIST 109	History of the United States I <b>and</b>	
HIST 110	History of the United States II	
HIST 115A	History of the Americas I <b>and</b>	
HIST 115B	History of the Americas II	
HIST 150	Native Americans in United States History <b>and</b>	
HIST 151	Native Americans in United States History	
PHIL 102A	Introduction to Philosophy: Reality and Knowledge, <b>and</b>	
PHIL 102B	Introduction to Philosophy: Values	
PHIL 104A	History of Western Philosophy <b>and</b>	
PHIL 104B	History of Western Philosophy	
POLI 101	Introduction to Political Science, <b>and</b>	
POLI 102	The American Political System	
POLI 103	Comparative Politics, <b>and</b>	
POLI 140	Contemporary International Politics	
		12

**Total Units = 18**

**Note:** Only one course from the above list may be used to satisfy SDCCD general education requirements.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Geography 102, 104, 290; History 109 and 110, 115A and 115B, 125 and 126, 130, 150 and 151, 168, 171, 175, 290; Philosophy 101, 102A and 102B, 103, 104A and 104B, 105, 106, 107, 108, 109, 110, 111, 112, 125, 290; Political Science 101 and 102, 103, 140, 290; Anthropology 103, 200, 210; Fine Arts 110, 111; Economics 120 and 121; English 215, 216, 220, 221; Humanities 101, 102; Psychology 155; Sociology 101, 110, 201.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the**

**transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution.**

## Sociology

Award Type	Units
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<b>Associate in Arts Degree:</b> Sociology	18*
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\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

The Sociology Program is suited to the needs of both the two-year student and the transfer student who wish to major or minor in Sociology or related fields. It is designed to provide the student with a greater understanding of human interactions, social processes, and social structures.

### Student Learning Outcomes

Students who complete the Sociology Program will gain facility with:

- **Global Awareness:** Explain the role of the United States in the global economy and political system.
- **Critical Thinking:** Compare and contrast the traditions of structural functionalism, social conflict theory, symbolic interaction, and their contemporary offshoots of feminism, post-structuralism, and social construction theory.
- **Communication:** Articulate in writing and speech an understanding of the basic assumptions of human behavior within the discipline: the effects of culture, social structure, and social interaction on human agency.
- **Social Action and Civic Responsibility:** Explain how the theoretical underpinnings of sociology explicitly challenge the dominant ideology in American society of individualism and radical subjectivism.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Sociology

Courses Required for the Major:		Units
SOCO 101	Principles of Sociology	3
SOCO 110	Contemporary Social Problems	3

### Select twelve units from the following:

SOCO 125 <sup>1</sup>	Sociology of the Family	3
SOCO 201	Advanced Principles of Sociology	3
SOCO 270	Work Experience	1-4
SOCO 223	Globalization and Social Change	3
ANTH 103	Introduction to Cultural Anthropology	3
PSYC 101	General Psychology	3

**Total Units = 18**

<sup>1</sup>SOCO 125 offered only at Mesa College.

**Note:** Only one Sociology (SOCO) course from the list may be used to satisfy SDCCD general education requirements. Some campuses might not offer all courses.

For graduation requirements see **Requirements for the Associate Degree** on page 84.

### Electives as needed to meet minimum of 60 units required for the degree:

**Recommended Electives:** Anthropology 103, Mathematics 119, Psychology 101, 258, Sociology 201, 270, 290.

**Other recommended electives:** Foreign Language (Although no courses in a foreign language are specified in the above course sequence, a minimal familiarity with one foreign language is desirable. The particular language should be selected in consultation with the Behavioral Sciences Department); Natural Sciences (Life Sciences, Physical Sciences, laboratory courses from either of the above).

It is strongly recommended that students planning to transfer to a four-year institution complete a course in statistics, either Psychology 258, or Mathematics 119.

\*\*Although no courses in a foreign language are specified in the above course sequence, a minimal familiarity with one foreign language is desirable. The particular language should be selected in consultation with the Behavioral Sciences Department.

## Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Spanish

Award Type	Units
<b>Associate in Arts Degree:</b>	
Spanish	26*
* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.	

### Description

Program provides training in the fundamental skills of understanding, speaking, reading and writing the language, and increases one's familiarity with the Spanish language. From a vocational standpoint, the curriculum will provide a student with skills useful in translating, interpreting, teaching, linguistic or literary research, music, foreign trade, or missionary work. The major requires 26 units in Spanish, unless the student has completed two years of Spanish in high school (with a "C" average or better). In this case, the department will determine the courses necessary to complete the requirements.

### Student Learning Outcomes

Students who complete the Spanish Program will be able to:

- Communicate in a meaningful context in Spanish.
- Explain or analyze the nature of language through comparisons of the Spanish language and their own.
- Demonstrate knowledge of and sensitivity to aspects of behavior, attitudes, and customs of Spanish speaking countries.

- Connect with the global community through study and acquisition of the Spanish language.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

## Associate in Arts Degree: Spanish

Courses Required for the Major:		Units
SPAN 101	First Course in Spanish <b>and</b>	
SPAN 102	Second Course in Spanish <b>or</b>	
SPAN 100	First/Second Course in Spanish (Accelerated)	
		10
SPAN 201	Third Course in Spanish	5
SPAN 202	Fourth Course in Spanish	5
SPAN 210	Conversation and Composition Spanish I	3
SPAN 211	Conversation and Composition Spanish II	3
<b>Total Units = 26</b>		

**Note:** Only one Spanish (SPAN) course from the above list may be used to satisfy SDCCD general education requirements.

**\*Note: The “accelerated” foreign language course is 100 (101-102). This is particularly well-suited for students who are specializing in foreign languages or who have the desire and ability to do intensive work in a language.**

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree:**

**Recommended Electives:** Anthropology 103, 107; Chicano Studies 135, 138; Fine Art 109, 111; English 220, 221; Geography 102, History 115A, 115B, 120; Music 109; Philosophy 106, Vietnamese 201.

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in**

**Arts degrees require a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

### Teacher Education Preparation

See “Liberal Studies Elementary Education Preparation” on page 224.

### Travel and Tourism

See “Event Management” on page 178.

## Web Development

Award Type	Units
<b>Certificate of Achievement:</b>	
Web Design	18
<b>Associate in Arts Degree:</b>	
Web Design	30*

\* plus credits to satisfy District requirements and elective credits, as needed, to meet the 60 unit minimum.

### Description

The Web Design program serves students entering fields that need Web Design skills and knowledge and working professionals who need to learn new skills for their current job or for career advancement. The program prepares students to design and create Web sites, including integrating databases and content management systems, creating multimedia elements, and editing content to follow writing for the Web guidelines. Students acquire a solid foundation in usability, accessibility, and design principles, as well as technical skills at hand coding HTML, CSS, basic PHP and MySQL. Students use industry standard software and practices to prepare for entry level careers.

### Goals

1. To provide students with the theoretical knowledge, applicable standards-based technical and coding skills, and attitude necessary to function as an entry-level Web designer.
2. To impart to students the use of current practices and standards of Web informational

design: writing for the Web, design principles, Web site architecture, Web site usability, and Web accessibility.

- To prepare student for the demands and responsibilities in the work environment, students will create projects on their own, or in teams, with each student assuming responsibility for the production process.
- To educate students to practice respect for copyright laws and regulations for content on the Web site.
- To inculcate in students the practice of life-long learning and professional growth.

### Career Options

Web Design, Microcomputer Applications, Administrative Assistant, Office Clerk, Word Processor, Desktop Publishing and Information Management Technology (Records Management).

### Certificate of Achievement: Web Design

Courses Required for the Major:		Units
CBTE 162	Web Page Creation	2
CBTE 165	Webpage Creation with Dreamweaver	3
CBTE 177	Acrobat Portable Document Format File Creation	1
MULT 121	Digital Image Editing I: Introduction to Photoshop	3
MULT 127	Creating User-Centered Websites	3
WEBD 166	Database Driven Website Development in Dreamweaver	3
WEBD 168	Cascading Style Sheets (CSS) for Web Design	3
<b>Total Units = 18</b>		

### Associate in Science Degree: Web Design

Students in Web Design enjoy a practical hands-on approach to creating web sites using current technologies and web standards. This rigorous program trains students to create a front-end Web site, which includes database integration. Upon completion of the program, students are equipped with the skills required for entry-level employment at Web site design companies and large businesses and for the creation and management of web sites for small to medium size businesses.

Courses Required for the Major:		Units
CBTE 153	Database Development with Access	3
CBTE 162	Web Page Creation	2
CBTE 165	Webpage Creation with Dreamweaver	3
CBTE 173	Introduction to E-Commerce	3
CBTE 177	Acrobat Portable Document Format File Creation	1
MULT 121	Digital Image Editing I: Introduction to Photoshop	3
MULT 127	Creating User-Centered Websites	3
WEBD 166	Database Driven Website Development in Dreamweaver	3
WEBD 168	Cascading Style Sheets (CSS) for Web Design	3
WEBD 169	Website Customization Using Open Source Interactive Tools	3
WEBD 191	Capstone in Web Design	3
<b>Total Units = 30</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 84.

**Electives as needed to meet minimum of 60 units required for the degree.**

### Transfer Information

Students planning to transfer to a four-year college or university should complete courses required for the university major and the general education pattern required by that transfer institution. See catalog TRANSFER INFORMATION section. Additional courses may be required to meet university lower-division requirements. **Course requirements at the transfer institution are subject to change and may be verified by a counselor or by consulting the current university catalog. Many Baccalaureate in Arts degrees require third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Women's Studies

Award Type	Units
<b>Certificate of Performance:</b> Women's Studies	15

### Description

The Women's Studies Certificate of Performance is awarded to students who successfully have

completed an interdisciplinary curriculum designed to explore the past, present and future of women from a multi-cultural perspective. The courses in this concentration will explore how women's lives have been affected by society's values, traditions, and institutions and how language, belief systems, political structures and economic systems shape the status of women, as well as men, in society and culture.

### Statement of Goals

This Certificate of Performance provides an interdisciplinary curriculum of courses that emphasize women's issues and fulfill General Education, American Institutions and multicultural requirements for the District and transfer institutions.

### Program Emphasis

The courses taken to achieve the Certificate of Performance fulfill general education, American Institutions, and multi-cultural requirements for the Associate in Arts degree and for university transfer programs. Courses can also be used as preparation for a transfer major or minor in Women's Studies. Students who gain a Certificate in Women's Studies may combine their interest in Women's Studies with another major, and their broad interdisciplinary background makes them attractive candidates for graduate schools.

### Career Options

A Women's Studies Certificate also prepares students for careers in non-profit organizations, government and public policy, education, health fields, business, the creative arts, journalism, publishing, law, science, the social sciences, and social work. For example, social work and counseling professionals as well as health professionals of all types, including physicians, nurses, physical therapists, and occupational therapists, often focus on issues of concern solely to women or more likely to be faced by women. Manufacturers, retailers, advertising agencies and marketing firms analyze the purchasing patterns and preferences of female consumers and retirement concerns of woman are a growing part of the finance industry. Lawyers often specialize in family law, gender discrimination, sexual harassment, or other issues of special concern to women.

### Student Learning Outcomes

Students who complete the Women's Studies Program will be able to:

- Analyze how women's lives have been affected by society's values, traditions, and institutions.
- Delineate the literary, artistic, scientific and political contributions of women throughout history.
- Explain or analyze how women's diverse experiences are affected by ethnicity, class, nationality, religion, and sexual orientation.
- Develop arguments, weigh evidence, and derive conclusions in the area of Women's Studies.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### Certificate of Performance: Women's Studies\*

<b>Courses:</b>	<b>Units</b>
PHIL 125 Philosophy of Women	3
PHIL 126 Introduction to Philosophy of Contemporary Gender Issues <b>or</b>	
PSYC 133* Psychology of Women	3
<b>Select three additional courses from:</b>	
BLAS 150 Black Women in Literature and the Media	3
BLAS 175 Psycho-History of Racism and Sexism	3
CHIC 170 La Chicana	3
HIST 141 Women in United States History I	3
HIST 142 Women in United States History II	3
PHIL 126 Introduction to Philosophy of Contemporary Gender Issues	3
PSYC 133* Psychology of Women	3
<b>Total Units = 15</b>	

\*Completion of Psychology 133, Psychology of Women, may only be counted once toward the 15 units required for the certificate of performance.

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Also see "Associate in Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Women's Studies" on page 223



# Course Descriptions



# General Course Information

Not all courses listed will be offered each semester, and San Diego Mesa College reserves the right to cancel any course if enrollment in such course is below a minimum number as set by the San Diego Community College District Board of Trustees. The hours indicated at the beginning of each course description, except where otherwise specified, denote the total number of clock hours the class meets each week.

Effective 2009-2010 catalog year (and each year thereafter), students must earn a grade of "C" or better in courses required for the major.

Students enrolled in occupational and health occupation programs must earn a grade of "C" or better in courses required for the major.

Only one course in a student's major discipline may be used to meet the San Diego Community College district general education requirement.

## Course Numbering System

The course numbering system has meaning with regard to level and transfer. See the description below:

- **1-49** Basic Skills or college preparatory courses. Credit does not apply toward the associate degree and is not intended for transfer to a four-year college or university. Final determination regarding the transfer of credit rests with the receiving institution.
- **50-99** Course credit applies toward the associate degree and is not intended for transfer to a four-year college or university. Final determination regarding the transfer of credit rests with the receiving institution.
- **100-299** Course credit applies toward the associate degree and is intended for transfer to a four-year college or university. (Some courses may be identified as associate degree applicable only. See catalog course description.) Final determination regarding the transfer of credit rests with the receiving institution.
- **300-391** Apprenticeship and in-service courses. See Catalog course description to determine credit for Associate Degree or Transfer.
- **392-399** Special Topics courses that employ a consistent disciplinary framework as described

by a complete course outline of record, but utilize a specific focus area that may change from term to term may be offered in some disciplines. See the class schedule for specific titles and course details. (See catalog course description to determine credit for Associate Degree or Transfer.)

Apprenticeship 345, 349, 349-D, DSPS 065, Field Experience/Internship 275, Independent Study 290, Individualized Instruction 296, Experimental Topics 18, 23, 63, 265, Tutoring 44, and Work Experience courses 270, 272 have Districtwide designated numbers.

## Prerequisites, Corequisites, Limitations on Enrollment, and Advisories

All prerequisites, corequisites, and limitations on enrollment stated in the course descriptions listed in this catalog will be strictly enforced on Reg-e at the time of registration. Students who do not meet the prerequisite, corequisite, or other limitation according to the college's records, will not be permitted to register for the course. Students are strongly advised to have all transcripts of prior college work and other documentation on file well in advance of registration. This will minimize registration delays. For more information see page 20

***Students should plan their schedule early and see a counselor for assistance.***

## Challenge Procedures

Students may challenge a prerequisite, corequisite or limitation on enrollment. Contact the Admissions Office to obtain a Petition to Challenge ~~and a copy of Procedures 5500.2. The completed petition must be filed no later than ten working days prior to the published add deadline for the course being challenged.~~

## Generic Course Information

Any discipline or department may offer the courses listed below which do not appear individually in the catalog. If applicable to a particular subject area, it will be listed under the appropriate departmental heading (subject indicator) in the college class schedule. For further information, please check with the instructor or department chair.



### **Supervised Tutoring (044)**

Supervised tutoring courses are available in each discipline. To enroll in a supervised tutoring course, a student must be enrolled in a college or basic skills course in the respective discipline. The courses are designed to prepare the student to succeed in the corequisite or subsequent courses. Supervised tutoring may be taken four times, each time with a different corequisite. Credit does not apply to the associate degree.

### **Experimental Topics (265)**

Experimental topics courses that examine an immediate specialized need or focused academic inquiry may be offered in some disciplines. See the class schedule for specific titles and course details.

### **Special Topics Courses (392–399)**

Special topics courses that employ a consistent disciplinary framework as described by a complete course outline of record, but utilize a specific focus area that may change from term to term may be offered in some disciplines. See the class schedule for specific titles and course details. (See catalog course description to determine credit for Associate Degree or Transfer.)

### **Work Experience (270)**

Program of on-the-job learning experiences for students employed in a job related to the major. Students may enroll in a maximum of 16 units of work experience in a lifetime, including a maximum of 6 units from General Work experience. Students may enroll in a maximum of 8 units per semester of Occupational Work experience. AA/AS; CSU.

### **Service Learning**

Students gain hands-on experience in project planning, development, implementation and evaluation. Students meet weekly to receive support training and development opportunities regarding best practices in Service Learning. The service-learning options are as follows:

#### **Service Learning—High School Projects (277A)**

Students in this course develop and implement service-learning projects to help high school students under the supervision of college faculty and in cooperation with high school teachers, counselors and resource teachers. Projects may

include collaboration with high school classes, educational projects for high school students, mentoring and shadowing. This course is intended for students from any discipline who are interested in project development, development of teaching skills or enhancement of communication and planning skills. Course segments may be taken in any order. The combined credit for all 277A discipline courses may not exceed three units. AA/AS; CSU.

#### **Elementary and Junior High School Projects (277B)**

Students in this course develop and implement service learning projects to help elementary and junior high school students under the supervision of college faculty and in cooperation with elementary and junior high school teachers, counselors and resource teachers. Projects may include collaboration with elementary and junior high school classes, educational projects for elementary and junior high school students, mentoring, and shadowing. This course is intended for students from any discipline who are interested in project development, development of teaching skills, or enhancement of communication and planning skills. Course segments may be taken in any order. The combined credit for all 277B discipline courses may not exceed three units. AA/AS; CSU.

#### **Student Service Learning—Community (277C)**

Students in this course develop and implement service-learning projects to help the college's community under the supervision of college faculty and in cooperation with the staff of community organizations and agencies. Projects may include collaboration with off-campus community organizations and educational service oriented projects for the college's community. This course is intended for students from any discipline who are interested in project development, development of teaching skills, or enhancement of communication and planning skills. Course segments may be taken in any order. The combined credit for all 277C discipline courses may not exceed three units. AA/AS; CSU.

#### **Service Learning—On Campus (277D)**

Students in this course develop and implement service-learning projects to help the college's students under the supervision of college faculty and in cooperation with college counselors and

staff. Projects may include collaboration with college classes, educational projects for college students, mentoring, and shadowing. This course is intended for students from any discipline who are interested in project development, development of teaching skills, or enhancement of communication and planning skills. Course segments may be taken in any order. The combined credit for all 277D discipline courses may not exceed three units. AA/AS; CSU.

### Independent Study (290)

This course is for students who wish to conduct additional research, a special project, or learning activities in a specific discipline/subject area and is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals. This course may be taken four times with different content, for a maximum of six units. AA/AS; CSU.

### Individualized Instruction (296)

This course provides supplemental instruction to reinforce achievement of the learning objectives of a course in the same discipline under the supervision of the instructor of the designated course. Learning activities may employ a variety of self-paced multimedia learning systems, language labs, print and electronic resources, laboratory, or field research arrangements, to assist student in reaching specific learning objectives. This open entry/open exit course is offered concurrently with designated courses. AA/AS; CSU.

### Accelerated College Program

Transferable community college courses in calculus and political science are provided for qualified high school students at local high schools. The Accelerated College Program, located at Mesa College, is a Districtwide program responsible for providing and administering all of these classes, following guidelines established by a joint agreement between SDCCD and SDUSD. When an ACP student becomes a first-year or transfer student, credits transfer and are widely applicable in fulfilling general education and pre-major requirements at most universities.

Students who complete courses within the Accelerated College Program (Math and/or Political Science disciplines) will be able to:

- Think critically when applying the key concepts and models developed in ACP courses to address and solve problems using practical, analytical skills;
- Communicate effectively the key concepts and models developed in ACP courses;
- Demonstrate proficient knowledge of American civics, enabling them to become active, responsible, and informed citizens;
- Use technology effectively and appropriately when solving problems, collecting data, and researching information on the key concepts and models developed in ACP courses.

### Explanation of Terms

Courses in the San Diego Community College District that are associate degree applicable and/or transfer to public four-year universities in California are identified at the end of each course description with the following statements:

**AA/AS: Associate Degree Applicable.** The course will apply toward the units required for the associate degree at San Diego Community College District colleges. The course is not intended for transfer to a four-year college or university. However, final determination of transfer credit rests with the receiving institution.

**CSU: California State University Applicable.** The course will apply toward the units required for the baccalaureate degree at the California State University system.

**UC: University of California Applicable.** The course will apply toward the units required for the baccalaureate degree at the University of California system.

**UC Transfer Limitations. See a counselor:** There may be limitations on the number of units that are applied from this course toward the total number of lower division units required for the baccalaureate degree at the University of California. Students should see a counselor concerning these limitations. The University of California limits the maximum amount of lower division credit that can be applied toward the baccalaureate degree in a variety of disciplines, including Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) and Library Science.

**Field Trip: (FT)** A field trip may be required for this course. Detailed information concerning costs incurred will be provided by the instructor.

#### **Private Colleges/Independent/Out-of-State:**

*Note regarding Private / Independent / Out-of-state institutions:* San Diego Community College District courses that are designated as CSU or UC transferable may apply toward the total number of lower division units required for the baccalaureate degree at private, independent, and/or out-of-state colleges and universities; however, the final evaluation of course credit will be determined by the individual private, independent, or out-of-state institution.

#### **Physical Education Classes/ Intercollegiate Sports-disclaimer**

Participation in all sports and physical education activities involves certain inherent risks. Risks may include, but are not limited to, neck and spinal injuries that may result in paralysis or brain injury, injury to bones, joints, ligaments, muscles, tendons and other aspects of the muscular skeleton system; and serious injury, or impairment, to other aspects of the body and general health, including death. The San Diego Community College District, its officers, agents and employees are not responsible for the inherent risks associated with participation in physical education classes/intercollegiate sports. Students are strongly advised to consult a physician prior to participating in any physical education activity.

#### **UC Transfer and Physical Education Courses**

The University of California divides physical education courses into three categories: 1) Activity; 2) Theory, and 3) Academic/Scholarly. Credit for Activity courses is limited to four (4) units. Credit for Theory courses is limited to eight (8) units. No credit limitation is established for Academic/Scholarly courses. All UC-transferable physical education courses and their associated unit limitations are listed on Web ASSIST at [www.assist.org](http://www.assist.org).

#### **UC Transfer and Variable Topics Courses**

These courses are also called "Independent Studies", "Special Studies", "Special Topics", "Field Work", etc. Credit for variable topics courses is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after

transfer and may require recommendations from faculty. Information about internships may also be presented for review, but credit for internships rarely transfers to UC. UC does not grant credit for variable topics courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) or Library Departments because of credit restrictions in these areas.

## Accounting (ACCT)

### **116A Financial Accounting**

**4 hours lecture, 4 units**

**Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 46, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M40.

This introductory course shows students what financial accounting is, why it is important, and how it is used by investors and creditors to make decisions. It covers the accounting information system, and the recording and reporting of business transactions with a focus on the accounting cycle, the applications of generally accepted accounting principles, the classified financial statements, and statement analysis. This course also includes issues related to asset, liability, and equity valuation; revenue and expense recognition; cash flows; internal controls; and ethics. (FT) AA/AS; CSU; UC.

### **116B Managerial Accounting**

**4 hours lecture, 4 units**

**Grade Only**

*Prerequisite:* Accounting 116A with a grade of "C" or better, or equivalent.

This course is a study of how managers use accounting information in decision-making, planning, directing operations, and controlling. The course focuses on cost terms and concepts, cost behavior, cost structure, and cost-volume-profit analysis. It examines profit planning, standard costs, operations and capital budgeting, cost control, and accounting for costs in manufacturing organizations.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

This course is for students who desire to look at accounting from a management perspective. (FT) AA/AS; CSU; UC.

### 120 Federal Income Tax

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Completion of or concurrent enrollment in: Accounting 116A with a grade of "C" or better, or equivalent.

This course introduces the student to tax concepts and tax laws that govern individuals who pay federal income taxes. Emphasis is placed on recognizing the social, economic, and political factors that Congress considers when they create tax laws. This course relates tax codes to the individual and identifies how tax planning skills can determine economic outcomes. Furthermore, it demonstrates and differentiates between tax avoidance and tax evasion. (FT) AA/AS; CSU.

### 121 California Income Tax

**1 hour lecture, 1 unit  
Grade Only**

*Advisory:* Concurrent enrollment in: Accounting 120. This course is a study of California personal income taxation and tax planning. Emphasis is placed on tax concepts and related social economic issues rather than tax return preparation. The course distinguishes between California and Federal Income Tax requirements. This course is intended for all students interested in California income tax. AA/AS; CSU.

### 125 Government & Not-for-Profit Accounting

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Accounting 116A with a grade of "C" or better, or equivalent.

The course provides instruction in the principles of fund accounting and budgeting including revenues, appropriations, encumbrances, internal controls for both governmental and not-for-profit entities. AA/AS; CSU.

### 135 Principles of Auditing

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Accounting 116A with a grade of "C" or better, or equivalent.

This is a basic course concerned with financial statement auditing as well as other assurance services provided by professional auditors. All phases

of auditing including ethics, standards, planning, fieldwork and reporting are covered. (FT) AA/AS; CSU.

### 150 Computer Accounting Applications

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Completion of or concurrent enrollment in: Accounting 116A with a grade of "C" or better, or equivalent.

This course illustrates to the student how to use accounting computer programs in a commercial business enterprise. As a basis for instruction, it demonstrates the use of QuickBooks Pro accounting software on a PC. The full accounting cycle and payroll is evaluated within a typical business environment. Business transactions are identified, labeled, recorded, and processed for both service and merchandise businesses. Financial statements are constructed, evaluated, and reviewed for accuracy and completeness. The main objective is to provide the student with a complete guide to creating and maintaining a proper accounting system while using a popular accounting software program. (FT) AA/AS; CSU.

### 201A Intermediate Accounting I

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Accounting 116A with a grade of "C" or better, or equivalent.

This course introduces students to advanced theory and concepts with an emphasis on financial accounting standards and principles. Emphasis is placed on corporate financial statements. Topics include the acquisition, valuation, and disposition of assets as well as the identification and reporting of current liabilities. This course is intended for accounting majors and students interested in upgrading their accounting job/career skills. (FT) AA/AS; CSU.

### 201B Intermediate Accounting II

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Accounting 201A with a grade of "C" or better, or equivalent.

This course continues the study of advanced theory and concepts that was started in Accounting 201A. Emphasis is placed on the valuation and presentation of liabilities and stockholders' equity, revenue recognition, leases and tax accounting. This course is intended for accounting majors and

students interested in upgrading their accounting job/career skills. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

### **American Indian Studies**

An interdisciplinary approach

(See selected courses in Anthropology, page 270  
Art, page 276 and History, page 366)

### **Allied Health (ALLH)**

#### **48 Basic Skills for Health Care Careers**

**2 hours lecture, 2 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 42 and English 43 and Mathematics 38, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4, W5 and M30.

This course is designed to prepare students for the college level interdisciplinary skills required in math, oral and written communication in the healthcare environment. In-class essay development, mathematical word problems, logical reasoning and professionalism are emphasized. (FT) Not applicable to the Associate Degree.

#### **49 Introduction to Health Careers**

**1.5 hours lecture, 1.5 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49 and Mathematics 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M40.

This introductory course is designed for students interested in entering the human or veterinary health care industry. This course explores the history and key aspects of the practice of health care in the United States. The content provides ways to identify general aptitudes and skills required in health careers and provides students with an opportunity to match individual aptitudes, interests and abilities to specific health careers. (FT) Not Applicable to Associate Degree and not a basic skills course.

### **American Sign Language Interpreting (AMSL)**

#### **104 Introduction to Deaf Culture**

**3 hours lecture, 3 units**

**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with credit for Special Education 104.

This is a course to provide students an introduction to the unique aspects of Deaf Culture and Deaf community. This course provides in-depth discussion of the beliefs and customs of this sociolinguistic/cultural minority in relation to language use and history of Deaf people in the United States of America. This course is intended for students who are interested in learning about Deaf Culture and the Deaf community. (FT) AA/AS; CSU; UC.

#### **105 Implications of Deafness**

**3 hours lecture, 3 units**

**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Special Education 105.

This course is a study of the audiological, educational, social, and communicative aspects of people who are deaf and hearing impaired. Emphasis is placed on historical perspectives and current trends, philosophies, and ideologies related to deafness. This course is intended for students who are interested in learning about the pathological aspects of deaf and hearing impaired people. (FT) AA/AS; CSU.

#### **107 American Sign Language: Fingerspelling**

**2 hours lecture, 2 units**

**Grade Only**

*Prerequisite:* American Sign Language/Interpreting 115 with a grade of "C" or better, or equivalent. Introduction to the American manual alphabet

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

(Fingerspelling) and its use. Extensive drills and practice in both expressive and receptive use of the language. AA/AS; CSU.

**108 Fingerspelling for Interpreters**  
**2 hours lecture, 2 units**  
**Grade Only**

*Prerequisite:* American Sign Language/Interpreting 215 with a grade of "C" or better, or equivalent. This course is an intermediate-level study of the American Fingerspelling manual alphabet. Emphasis is placed on the application of fingerspelling in the interpreting process. Students participate in extensive drills and practice in expressive and receptive skills that may include the use of fingerspelling in voice to sign and sign to voice interpreting. This course is intended for American Sign Language (ASL) majors and those pursuing employment or a career in the field of American Sign Language/English interpreting. (FT) AA/AS; CSU.

**115 American Sign Language Level I**  
**4 hours lecture, 4 units**  
**Grade Only**

*Corequisite:* American Sign Language/Interpreting 115L.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skills Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 100.

This is an entry-level course designed to introduce students to American Sign Language (ASL) and fingerspelling as it is used within Deaf Culture. Students are taught to use American Sign Language by signing, fingerspelling, using facial grammar at the novice level. Emphasis is placed on the development of ASL and receptive skills. The course is designed for students who want to explore the basic language structure of ASL and Deaf Culture. (FT) AA/AS; CSU; UC Transfer Limitation: Corresponds to two years of high school study.

**115L American Sign Language I (Lab)**  
**3 hours lab, 1 unit**  
**Grade Only**

*Corequisite:* American Sign Language/Interpreting 115

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 100.

This laboratory course provides students with the opportunity to apply their American Sign Language (ASL) skills through an individualized program. Students utilize interactive media to express their comprehension of basic ASL sentences and stories as well as their signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax. The course is designed for students who want to explore the basic language structure of ASL and Deaf Culture. (FT) AA/AS; CSU.

**116 American Sign Language Level II**  
**4 hours lecture, 4 units**  
**Grade Only**

*Prerequisite:* American Sign Language/Interpreting 115 with a grade of "C" or better, or equivalent.

*Corequisite:* American Sign Language/Interpreting 116L

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 101.

This course is a continuation of the study of American Sign Language (ASL) at the beginning intermediate level. Emphasis is placed on increasing development of students' receptive and expressive skills through ASL vocabulary, fingerspelling and knowledge of Deaf culture. Instruction includes a natural approach to teaching a second language by exposing students to authentic conversations in the classroom. This course is designed for students and/or professionals interested in working and interacting with Deaf people. (FT) AA/AS; CSU; UC.

**116L American Sign Language II (Lab)**  
**3 hours lab, 1 unit**  
**Grade Only**

*Corequisite:* American Sign Language/Interpreting 116

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 101.

This laboratory course provides students with the opportunity to apply their American Sign Language (ASL) skills through an individualized program. Students utilize interactive media to express their comprehension of basic to intermediate ASL sentences and stories as well as to hone their signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax at the intermediate level. This course is designed for

students and/or professionals interested in working and interacting with Deaf people. (FT) AA/AS; CSU.

### 205 Interpreting Skills I

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 216 with a grade of "C" or better, or equivalent. This course introduces students to the interpretation process. Emphasis is placed on the application of previously-learned American Sign Language (ASL) skills to develop the cognitive and critical thinking abilities required for interpreting and transliterating. Consecutive interpreting and simultaneous interpreting skills of source language text are utilized throughout the course. Instructor may use sign to voice and/or voice to sign techniques. This course is designed for Interpreting majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### 206 Interpreting Skills II

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 205 with a grade of "C" or better, or equivalent. This course is an advanced study of the interpretation process. Emphasis is placed on the application of previously-learned American Sign Language (ASL) skills to develop the cognitive and critical thinking abilities required for interpreting and transliterating at the advanced level. Consecutive interpreting and simultaneous interpreting skills of source language text are utilized throughout the course. Instructor uses voice to sign and may use sign to voice techniques. This course is designed for Interpreting majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### 207 Sign-to-Voice Interpreting I

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 205 with a grade of "C" or better, or equivalent. *Corequisite:* Completion of or concurrent enrollment in: American Sign Language/Interpreting 206 with a grade of "C" or better, or equivalent. This course is designed to provide development of skills in receiving signed messages and presenting an equivalent message using spoken English. Emphasis is placed on Sign Language receptivity, appropriate English word choices, vocal inflection, and English

structure at the beginner voice interpreter level. This course is designed for Interpreting majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### 208 Sign-to-Voice Interpreting II

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 206 and 207, each with a grade of "C" or better, or equivalent. This course is designed to provide advanced development of skills in receiving signed messages and presenting an equivalent message using spoken or signed English. Emphasis is placed on advanced sign language receptivity, appropriate word choices, vocal or signed inflection, and English structure at the advanced voice interpreter level. This course is designed for Interpreting majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### 209 Professional Aspects of Interpreting

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 205 with a grade of "C" or better, or equivalent. This course is a practical study of interpreting as a profession. Emphasis is placed on the application of the code of professional conduct in the field. Topics include the national standards for evaluation and certification, public employment versus private employment, and resume development. This course is designed for Interpreting majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### 210 Introduction to Specialized Settings

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 205 with a grade of "C" or better, or equivalent. This course is designed to provide students of American Sign Language (ASL) - English Interpretation with an introduction to the application of interpreting skills to a variety of professional settings and situations. Settings covered include, but are not limited to Community,

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**UC** = University of California Applicable

Conference, Deaf/Blind, Educational (K-12 and Post-secondary), Legal, Medical, Mental Health, Performing Arts, Religious Interpreting, and Video Relay Interpreting, and Private Practice and Freelance. This course is intended for students who plan to transfer and/or are interested in becoming an ASL Interpreter. (FT) AA/AS; CSU.

**215 American Sign Language Level III**  
**4 hours lecture, 4 units**  
**Grade Only**

*Prerequisite:* American Sign Language/Interpreting 108 and 116, each with a grade of "C" or better, or equivalent.

*Corequisite:* American Sign Language/Interpreting 215L.

This third course in American Sign Language (ASL) is designed to enhance students' receptive and expressive skills at an advanced intermediate level. Emphasis is placed on the ASL syntax, facial grammar, vocabulary, and fingerspelling skills that enable students to participate in increasingly more complex conversations with Deaf community members. Instruction utilizes a natural approach to teaching a second language by engaging students in authentic conversations within the classroom environment. Conversational content seeks to develop student knowledge and understanding of the Deaf community and its art and history. This course is intended for students or professionals interested in working and/or interacting with Deaf people. (FT) AA/AS; CSU; UC.

**215L American Sign Language III (Lab)**  
**3 hours lab, 1 unit**  
**Grade Only**

*Corequisite:* American Sign Language/Interpreting 215

This laboratory course provides students with the opportunity to apply their American Sign Language (ASL) skills through an individualized program. Students utilize interactive media to express their comprehension of intermediate to advanced ASL sentences and narratives as well as to hone their signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax at the intermediate to advanced level. This course is designed for students and/or professionals interested in working and interacting with Deaf people. (FT) AA/AS; CSU.

**216 American Sign Language Level IV**  
**4 hours lecture, 4 units**  
**Grade Only**

*Prerequisite:* American Sign Language/Interpreting 215 with a grade of "C" or better, or equivalent.

*Corequisite:* American Sign Language/Interpreting 216L.

This fourth course in the study of American Sign Language (ASL) continues to build upon students' receptive and expressive skills at the advanced level while expanding their knowledge of Deaf culture and the influences of other sign language systems. Emphasis is placed on advanced fingerspelling, ASL structure and vocabulary. Instruction utilizes a natural approach to teaching a second language by engaging students in authentic conversations within the classroom environment. This course is intended for students or professionals interested in working and/or interacting with Deaf people. (FT) AA/AS; CSU; UC .

**216L American Sign Language IV (Lab)**  
**3 hours lab, 1 unit**  
**Grade Only**

*Corequisite:* American Sign Language/Interpreting 216.

This laboratory course provides students with the opportunity to apply their American Sign Language (ASL) skills through an individualized program. Students utilize interactive media to express their comprehension of advanced ASL sentences and narratives as well as to hone their signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax at the advanced level. This course is designed for students and/or professionals interested in working and interacting with Deaf people. (FT) AA/AS; CSU.

**225 Introduction to Linguistics of American Sign Language**  
**3 hours lecture, 3 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: American Sign Language/Interpreting 108 and 216, each with a grade of "C" or better, or equivalent.

This course is designed to provide students with an analysis of the symbolic and linguistic structure of American Sign Language (ASL) and English including other spoken languages, other sign languages, and other related sign systems. Topics include phonology, morphology, syntax, semantics, pragmatics, grammar and discourse. This course examines the bilingual and bicultural practices,



language acquisition, sociolinguistics and related research. This course is intended for students who plan to transfer and/or are interested in learning about the linguistic aspects of American Sign Language. (FT) AA/AS; CSU.

### **276 Field Work in Interpreting**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 104, 105, 108, 208, 209, and 210, each with a grade of "C" or better, or equivalent.

This course is a supervised field experience designed to provide students with the opportunity to expand their skills and knowledge in the interpreting/transliterating profession through practice in various interpreting settings/situations. In addition to the field experience, students are required to attend on-campus seminars. This course is designed for Interpreting majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## **Animal Health Technology (ANHL)**

### **100A Animal Care and Management**

**4.5 hours lab, 1.5 units  
Grade Only**

*Prerequisite:* Biology 107, Chemistry 100 and Chemistry 100L, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

*Limitation on Enrollment:* This course is not open to students with previous credit for Animal Health Technology 100.

This introductory course provides Animal Health Technology students with practical experience in the basic husbandry of many animal species. Students learn and practice "essential" tasks as required by the American Veterinary Medical Association and the Registered Veterinary Technician Exam Committee

Knowledge, Skills and Abilities Tasks List. These tasks include methods of housing or caging, nutrition and feeding, sanitation and hygiene in an animal setting, and handling and restraint of the various species. Students are actively involved in the daily care of the program's resident animals. Student teams are assigned to a rotation schedule so that every student works with every animal during the semester. Applicable veterinary medical and animal husbandry terminology is included. (FT) AA/AS; CSU.

### **100B Advanced Animal Care and Management**

**4.5 hours lab, 1.5 units  
Grade Only**

*Prerequisite:* Animal Health Technology 100A, 105, 105L, 115, 145 and 145L, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is not open to students with previous credit for Animal Health Technology 100.

This course provides Animal Health Technology students with significant responsibility for resident animal care and advanced techniques in the general husbandry of many animal species. Students learn and practice "essential" tasks as required by the American Veterinary Medical Association and the Registered Veterinary Technician Exam Committee Knowledge, Skills and Abilities Tasks List. These tasks include advanced methods of housing or caging, nutrition and feeding, sanitation and hygiene in an animal setting, and handling and restraint of the various species. Students are actively involved in the daily care of the program's resident animals. Students supervise teams assigned to a rotation schedule. Applicable veterinary medical and animal husbandry terminology is included. (FT) AA/AS; CSU.

### **105 Fundamentals of Animal Health Technology**

**3 hours lecture, 3 units  
Grade Only**

*Corequisite:* Animal Health Technology 105L.

*Limitation on Enrollment:* Admission to the Animal Health Technology program.

This course is for students enrolled in the fall semester of their first year in the Animal Health

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Technology program. This introductory lecture course defines the role of the Animal Health Technician in private veterinary practice, research institutions, regulatory agencies and zoos. Topics covered include basic animal care and management, feeding, species identifications, behavior, handling skills, animal restraint, sanitation, personal hygiene, medicating, zoonotic disease risk factors, animal nursing skills, instruments and equipment, terminology, veterinary practice ethics and legal responsibilities. (FT) AA/AS; CSU.

### **105L Fundamentals of Animal Health Technology Laboratory**

**6 hours lab, 2 units  
Grade Only**

*Corequisite:* Animal Health Technology 105.

*Limitation on Enrollment:* Admission to the Animal Health Technology program.

This course is for students enrolled in the fall semester of their first year in the Animal Health Technology program. This introductory course utilizes demonstrations, laboratory exercises, group activities, and lectures to illustrate the principles presented in Animal Health Technology 105. Course work fulfills the student's need to learn and practice "recommended" and "essential" tasks from the American Veterinary Medical Association's and the Registered Veterinary Technician Exam Committee's Skills, Knowledge and Abilities Task List. These tasks include animal restraint and handling skills, medicating techniques, breed and species identification, basic animal nursing skills, poisonous plant identification, surgical equipment and veterinary medical equipment identification, basic nutrition, terminology, sanitation/sterilization, and personal hygiene. (FT) AA/AS; CSU.

### **115 Veterinary Office Procedures**

**2 hours lecture, 2 units  
Grade Only**

*Limitation on Enrollment:* Student must be admitted to the Animal Health Technology Program. This course is not open to students with credit for Animal Health Technology 240.

This course is for students enrolled in their first year of the Animal Health Technology program. This veterinary office procedures course is designed to introduce the student to the development and facilitation of client care, staff management, financial guidelines, patient management and record keeping in a veterinary setting. Topics include record keeping, client and staff communication, veterinary medical

ethics, veterinary logs and legalities, computer usage, financial management, and purchasing and inventory management in relationship to a veterinary establishment. Resume writing and job interviewing skills are also covered. (FT) AA/AS; CSU.

### **120 Comparative Physiological Anatomy**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Prerequisite:* Biology 107 and Chemistry 100 and Chemistry 100L, each with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49 and Mathematics 46, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M40.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This lecture and laboratory course is designed to introduce the first semester Animal Health Technology student to the comparative normal anatomy and physiology of selected domestic animal species. The eleven anatomical systems are covered and material presented ranges from the microscopic cellular level to the level of the full organism. Relevant application of structure and function to the clinical medical situations is addressed. Appropriate medical terminology is included with each system. Animal dissection is carried out by each student. (FT) AA/AS; CSU.

### **125 Veterinary Clinical Pathology**

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Animal Health Technology 105, 105L, 145 and 145L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Animal Health Technology 125L.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course provides Animal Health Technology students with an introduction to the clinical examination of blood, urine, feces, dermal, and other commonly analyzed samples found in the veterinary field. Topics include: the safe and proper collection of diverse samples, the safe and proper handling of samples, the various methods of sample analysis, and the significance of normal and abnormal results. The identification, life cycle, and clinical importance of ectoparasites, endoparasites, and fungal parasites are discussed. Appropriate stains, reagents, and terminology are included. (FT) AA/AS; CSU.

## 125L Veterinary Clinical Pathology Laboratory

**6 hours lab, 2 units  
Grade Only**

*Prerequisite:* Animal Health Technology 105, 105L, 145 and 145L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in: Animal Health Technology 125.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This clinical pathology laboratory course is designed to provide Animal Health Technology students with the opportunity to practice the principles and procedures of clinical pathology. Techniques for the safe and proper collection, handling, and storage of blood, urine, fecal, and skin samples in various species are introduced and practiced by the student. Students perform analytical tests appropriate for each sample type and evaluate the results. Safe operation and proper maintenance of laboratory equipment commonly used in the veterinary field is stressed. Appropriate veterinary medical terminology is presented. (FT) AA/AS; CSU.

## 135 Veterinary Pharmacology

**2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Animal Health Technology 145, 145L and 205, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is for Animal Health Technology students. The course provides the student with an introduction to the actions and uses of pharmacological agents: drug classifications, modes of action, indications and contradictions, routes of administration, and mechanisms of elimination. Dispensing and pharmacy management as well as the laws regulating controlled substances are covered. Students are expected to correctly solve medical math problems and calculate drug doses. (FT) AA/AS; CSU.

## 145 Veterinary Anatomy and Physiology

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Biology 107 and Chemistry 100 and Chemistry 100L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Animal Health Technology 145L.

*Advisory:* English 48 and English 49 and Mathematics 46, each with a grade of "C" or better, or equivalent,

or Assessment Skill Level W5,R5 and M40.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 120.

This lecture course is designed to introduce the first semester Animal Health Technology student to the comparative normal anatomy and physiology of selected domestic animal species. The eleven anatomical systems are covered and material presented ranges from the microscopic cellular level to the level of the full organism. Relevant application of structure and function to the clinical medical situations is addressed. Appropriate medical terminology is included with each system. To continue in the Animal Health Technology Program, students must earn a grade of "C" or better. (FT) AA/AS; CSU.

## 145L Veterinary Anatomy and Physiology Lab

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Biology 107 and Chemistry 100 and Chemistry 100L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Animal Health Technology 145.

*Advisory:* English 48 and English 49 and Mathematics 46, each with a grade of "C" or better, or equivalent, or Assessment Skill Level W5, R5 and M40.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 120.

This veterinary anatomy and physiology laboratory course is designed to provide the first semester Animal Health Technology student with the opportunity to investigate and study the principles of normal anatomy and physiology presented in the corresponding lecture course (Animal Health Technology 145). Techniques for the safe and proper dissection are introduced and practiced by the student during the extensive animal dissection. All eleven anatomical systems are studied through actual dissection or models. Relevant application of structure and function to the clinical medical situations is addressed. Appropriate medical terminology is included with each system. Animal

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dissection is carried out by each student. To continue in the Animal Health Technology Program, students must earn a grade of "C" or better. (FT) AA/AS; CSU.

## 205 Diseases of Domestic Animals

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Animal Health Technology 145 and 145L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Animal Health Technology 125 and 125L.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course provides Animal Health Technology students with an introduction to infectious and non-infectious diseases and conditions of domestic animals. Material covered includes the etiology, pathogenesis, pathophysiology, and clinical signs of each disease. This course also details disease or condition-specific nursing care, treatments or diagnostic test methods. AA/AS; CSU.

## 215 Veterinary Radiography

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Animal Health Technology 145 and 145L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Animal Health Technology 215L.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course introduces the Animal Health Technician student to the use of radiography and the Registered Veterinary Technician's role in radiography in the veterinary medical fields. Topics include radiation, x-ray beam production, intensifying screens, cassettes, grid usage, latent and visible image formation, film processing, and alternative imaging methods. Protocols for commonly used radiographic studies and introductory radiographic film interpretation are included. Special emphasis is placed on radiation safety for the patient and handler and radiographic terminology. Also included is the proper use and maintenance of all veterinary radiographic and processing equipment and machines. (FT) AA/AS; CSU.

## 215L Veterinary Radiography Laboratory

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Animal Health Technology 105L, 145 and 145L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Animal Health Technology 215.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is designed to provide the Animal Health Technology students with the opportunity to practice the concepts of radiology. The students utilize established veterinary positioning and technical protocols. They expose and process radiographs to develop a technique chart for commonly used veterinary radiographic studies, including contrast studies. The students also practice radiographic film evaluation techniques, radiation log production, and radiographic equipment maintenance. Darkroom procedures and practices that prevent artifacts are employed including equipment maintenance. An introduction to performing an ultrasound abdominal exam is provided including handling and maintenance of the machinery. Procedures and protocols for radiation safety of patient, handler, and equipment are stressed. (FT) AA/AS; CSU.

## 225 Animal Nursing Techniques and Anesthesiology

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Animal Health Technology 125, 125L, and 135 each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in: Animal Health Technology 226A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to the program.

This lecture course is designed to introduce the second year Animal Health Technology student to veterinary anesthesia, surgical and medical nursing techniques, dental hygiene, emergency first aid, and correct legal documentation. Techniques of intravenous and inhalation anesthesia, surgical asepsis, instrument sterilization, and patient monitoring are presented. Preoperative, operative, post operative, and after care nursing are discussed. Also covered are: fluid therapy, bandaging/splints/casts, and commonly performed medical procedures. Appropriate pharmacological agents are discussed including classification, dosage, method of action, method of administration, dispensing procedures and pharmacy management. Appropriate veterinary medical terminology is included. (FT) AA/AS; CSU.

**226A Surgical Nursing Procedures Lab I**  
**3 hours lab, 1 unit**  
**Grade Only**

*Prerequisite:* Animal Health Technology 105, 105L and 120 and 125, each with a grade of "C" or better, or equivalent.

*Corequisite:* Animal Health Technology 225.

*Limitation on Enrollment:* This course is not open to students with credit for Animal Health Technology 225L.

This is a laboratory course designed to illustrate the principles presented in Animal Health Technology 225. It allows for the beginning application of theories and laboratory procedures as taught in lecture. (FT) AA/AS; CSU.

**226B Surgical Nursing Procedures Lab II**  
**3 hours lab, 1 unit**  
**Grade Only**

*Prerequisite:* Animal Health Technology 105, 105L and 120 and 125 and 225 and 226A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for Animal Health Technology 225L.

This course is a continuation of Animal Health Technology 226A and is a laboratory course designed to continue the illustration of the principles presented in Animal Health Technology 225. It allows for an advanced application of theories and procedures as taught in Animal Health Technology 225. (FT) AA/AS; CSU.

**235A Directed Clinical Practice**  
**150 - hours other, 2 units**  
**Grade Only**

*Prerequisite:* Animal Health Technology 105, 105L, 115, 125, 125L, 145, 145L and 205, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 235.

This course provides Animal Health Technology students with workplace experience in an affiliated veterinary or research institution. Students are assigned entry level and general duties, such as caring for hospitalized patients, handling and restraint, assisting in the reception and exam rooms, conducting basic laboratory procedures, and administering medications. Students work with a supervisor toward mastering the "essential" and "recommended" skills as delineated by the American

Veterinary Medical Association's and the Registered Veterinary Technician Exam Committee's Knowledge, Skills and Abilities Tasks List. These skills are listed on a separate Directed Clinical Practice Task List. Clinical work is coordinated by a member of the college staff. (FT) AA/AS; CSU.

**235B Advanced Directed Clinical Practice**  
**150 hours, 2 units**  
**Grade Only**

*Prerequisite:* Admission to the Animal Health Technology program; and Animal Health Technology 225, 226A, and 235A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for Animal Health Technology 235.

This course is for students enrolled in the spring semester of their second year in the Animal Health Technology program. This continuation course provides the student with greater responsibility and additional work experience at a more advanced level in an affiliated veterinary or research institution. The student is assigned general and more advanced tasks such as assisting in surgery, monitoring anesthesia and recovery, cleaning wounds and ears, applying splints or bandages, dispensing prescriptions, performing dental prophylaxis, and conducting client education. The student works more independently while mastering the appropriate "essential" and "recommended" skills listed on the American Veterinary Medical Association's and the California Board of Examiners in Veterinary Medicine's Skills, Knowledge and Abilities Tasks List. The appropriate skills are listed on a separate Advanced Directed Clinical Practice Task List. The student is responsible to a supervisor in charge. Clinical work is coordinated by a member of the college staff. (FT) AA/AS; CSU.

**255 Laboratory Animal Medicine**  
**2 hours lecture, 2 units**  
**Grade Only**

*Prerequisite:* Animal Health Technology 100B and Animal Health Technology 125L and Animal Health Technology 225, each with a grade of "C" or better, or equivalent.

*Corequisite:* Animal Health Technology 255L.

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**UC** = University of California Applicable

*Limitation on Enrollment:* This course is not open to students with previous credit for Animal Health Technology 250.

This lecture course is designed for the second year Animal Health Technology student. The course covers the use of animals in biomedical research with an emphasis on common laboratory species, animal welfare legislation and the philosophy of laboratory animal management. The course includes handling, restraint, husbandry, care and observation of laboratory species. Methods and procedures involved in laboratory animal breeding, injections, anesthesia, sample collection, medicating, nutrition, euthanasia and necropsy are also covered. Appropriate terminology is included. To continue in the Animal Health Technology Program, students must earn a grade of "C" or better. (FT) AA/AS; CSU.

### **255L Laboratory Animals Medicine Laboratory**

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Animal Health Technology 100B and Animal Health Technology 125L and Animal Health Technology 225, each with a grade of "C" or better, or equivalent.

*Corequisite:* Animal Health Technology 255.

*Limitation on Enrollment:* This course is not open to students with previous credit for Animal Health Technology 250.

This laboratory animal medicine laboratory course is designed to provide the second year Animal Health Technology student with the opportunity to practice the principles and procedures presented in the Laboratory Animal Medicine (Animal Health Technology 255) lecture. Students apply regulations and ethical principles to various situations. Techniques for the safe and proper animal restraint, anesthesia, injection techniques, and sample collection are introduced and practiced by the student. Students also perform tattooing, ear notching and other procedures commonly utilized in the research setting. Students are required to perform a necropsy following established guidelines. (FT) AA/AS; CSU.

### **290 Independent Study** **Hours by Arrangement, 1-3 units Grade Only**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

This course consists of independent work in animal husbandry or other special projects which will

provide the student with individual experiences in animal care and management. This course may be taken four times with different content for a maximum of six units. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## **Anthropology (ANTH)**

### **102 Introduction to Physical Anthropology** **3 hours lecture, 3 units** **Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a survey of human evolution, variation and adaptation. Emphasis is placed on the study of primates, human heredity, variability of modern populations and fossil records of early hominids/hominins and hominoids. This course is intended for anthropology majors and all students interested in life and/or behavioral sciences. (FT) AA/AS; CSU; UC.

### **103 Introduction to Cultural Anthropology** **3 hours lecture, 3 units** **Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a survey of cultural anthropology using a comparative, cross-cultural approach. Emphasis is placed on the study of how various peoples around the world have adapted to their environments and developed behaviors to meet their biological, economic, psychological, social and political needs. This course is intended for anthropology majors and all students interested in life and/or behavioral sciences. (FT) AA/AS; CSU; UC.

### **104 Laboratory in Physical Anthropology** **3 hours lab, 1 unit** **Letter Grade or Pass/No Pass Option**

*Prerequisite:* Anthropology 102 with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

This course is a practical study of biological anthropology. Students perform field and laboratory studies in genetics, human variation, human osteology, anthropometry, hominid/hominin evolution, comparative primate anatomy, primate behavior, and forensic anthropology. This course is intended for anthropology majors and all students interested in life and/or behavioral sciences. (FT) AA/AS; CSU; UC.

### 107 Introduction to Archaeology

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introductory study of the history and theory of archaeology. Emphasis is placed on the techniques of archaeological data collection and analysis, cultural innovations, reconstruction and interpretation of the past and Cultural Resource Management (CRM) work. This course is designed for students planning to major in Anthropology and/or to conduct upper division work in archaeology at a four-year institution. (FT) AA/AS; CSU; UC.

### 115 Introduction to Archaeological Field Work

**32 - 36 hours lecture, 96 - 108 hours lab, 4 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6.

*Limitation on Enrollment:* This course is not open to students with previous credit for Anthropology 265: Introduction to Archaeological Field Work.

This course is an introduction to the basic techniques of archaeological field work. Emphasis is placed on site survey, site layout, excavation, artifact identification, laboratory analysis and report writing. Topics also include use of compass and transit, Global Positioning Systems (GPS) and Geographic Information Systems (GIS). This course is designed for Anthropology and Archaeology majors as well as students interested in prehistoric and/or historic research. (FT) AA/AS; CSU.

### 120 Archaeological Artifact Analysis

**2 hours lecture, 3 hours lab, 3 units**

*Letter Grade or Pass/No Pass Option*

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

*Limitation on Enrollment:* This course is not open to students with previous credit for ANTH 265:

Archaeological Artifacts Analysis or Laboratory Analysis of Archaeological Materials.

This course is a practical study of archaeological artifact analysis. Emphasis is placed on artifact typology and seriation methods used in the preparation of archaeological reports. Students learn the most current techniques for describing, classifying, cataloging and documenting archaeological materials. This course is designed for students majoring in anthropology with an emphasis in archaeology and for anyone interested in a career in the field of archaeology or employment in Cultural Resource Management (CRM). (FT) AA/AS; CSU.

### 200 Introduction to North American Indians

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course is a survey of the history and experiences of North American Indian cultures north of Mexico. Emphasis is placed on the development of American Indian comparative ethnology within the larger discipline of cultural anthropology. All North American Indian culture areas are introduced and a number of exemplar cultures are selected for in-depth review. This course is for all students interested in cultural anthropology and/or Native American ethnography. (FT) AA/AS; CSU; UC.

### 205 Introduction to Medical Anthropology

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Anthropology 265B. This course presents the cultural forces, among other social motivations, that are powerful influences on health and wellness-related behavior. Medical anthropology is a combined sub-branch of biological and cultural anthropology and is concerned with the application of anthropological and behavioral science theories and methods to address questions about health, illness and healing. This course is designed for students interested in culture, biology, and health. (FT) AA/AS; CSU.

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**210 Introduction to California Indians****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

This course is a comparative study of Native Peoples who lived within the culture area known as California. Emphasis is placed on precontact cultures and the influence of European contact. This course is intended for anthropology students and all students interested in the Native Peoples of California. (FT) AA/AS; CSU; UC.

**215 Cultures of Latin America****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

This course is a study of the cultural history of Latin America from precolumbian to colonial and contemporary civilizations. Emphasis is placed on the Mesoamerican and Andean civilizations. Students use contemporary anthropological research, ethnohistoric and archaeological data to assess and compare the rich cultural experiences of past and present peoples. This course is intended for anthropology majors and all students interested in Latin American civilization and culture. AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Architecture (ARCH)**

**100 Architectural Drafting****6 hours lab, 2 units****Grade Only**

*Advisory:* English 48, English 49, and Mathematics 38, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5, W5 and M30.

This course is designed for all students who wish to develop basic hand drafting skills for use in Architectural, Civil Engineering, Construction, Interior Design, and Landscape programs. Topics

include lettering, line control, sketching, and use of drafting instruments. (FT) AA/AS; CSU.

**101 Introduction to ArchiCAD****2 hours lecture, 3 hours lab, 3 units****Grade Only**

*Advisory:* Computer Business Technology 51, English 48, English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5, W5 and M30.

This course is a practical study ArchiCAD software and its application to architectural design. Emphasis is placed on the use of ArchiCAD software to develop and document architectural models. This course is designed for architecture majors and anyone interested in 3-D architectural modeling. (FT) AA/AS; CSU.

**105 Introduction to AutoCAD****6 hours lab, 2 units****Grade Only**

*Advisory:* Architecture 100 & Computer Business Technology 51, each with a grade of "C" or better, or equivalent.

This course is designed for students who wish to develop computer aided drafting and design skills, using the AutoCAD program, for use in Architectural, Construction, and Interior Design programs. This course concentrates on the 31 most basic two-dimensional drawing commands. (FT) AA/AS; CSU.

**106 Advanced Computer Aided Drafting I****2 hours lecture, 4 hours lab, 3 units****Grade Only**

*Prerequisite:* Architecture 105 with a grade of "C" or better, or equivalent.

This course is designed for students who wish to develop computer aided drafting and design skills, using the AutoCAD program, for use in Architectural, Construction, and Interior Design programs. This course is a continuation of Architecture 105 designed for students who wish to develop advanced 3D computer aided drafting (CAD) skills. This course expands the foundation developed in Architecture 105 and deals with more complex aspects of the CAD program and its use in the development of architectural construction documents. (FT) AA/AS; CSU.



**107 Introduction to Revit****1.5 hours lecture, 4.5 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Architecture 105 with a grade of "C" or better, or equivalent.

This course is a hands-on study of computer-aided drafting and design (CADD) using various three dimensional (3-D) parametric solid modeling programs, such as Revit and AutoCAD. Emphasis is placed on the use of CADD to electronically assemble projects from instructor-defined programs and to coordinate those drawings into architectural construction documents. This course is designed for architecture, interior design, and building construction technology majors. (FT) AA/AS; CSU.

**111 Architectural Production Detailing****1.5 hours lecture, 7.5 hours lab, 4 units  
Grade Only**

*Prerequisite:* Architecture 100 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or current enrollment in: Architecture 130, with a grade of "C" or better, or equivalent.

*Advisory:* English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

*Limitation on Enrollment:* This course is not open to students with credit for both Architecture 110 and 150. This course presents methods of construction and drafting practices as applied to architectural contract documents concerning foundation plans and details for light wood frame and masonry structures. The course involves use and application of building codes and reference material. (FT) AA/AS; CSU.

**126 History of Ancient World Architecture****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introductory survey of early stone and wood architecture in relation to cultural and aesthetic elements of world civilization. Students of architecture, landscape architecture, anthropology, archaeology, art, history, humanities, interior design, liberal arts, sociology, and travel and tourism as well as persons interested in travel will find this course relevant to their interests. This is a required course for architecture transfer students. Students with credit

for Architecture 125 may only take Architecture 126 or 127. (FT) AA/AS; CSU; UC.

**127 History of World Architecture:  
Romanesque through Contemporary****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introductory survey of Romanesque through contemporary architecture. Cultural and aesthetic elements of world civilization are emphasized. Students of architecture, landscape architecture, anthropology, archaeology, art, history, humanities, interior design, liberal arts, sociology, and travel and tourism as well as persons interested in travel will find this course relevant to their interests. This is a required course for architecture transfer students. Students with credit for Architecture 125 may only take Architecture 126 or 127. (FT) AA/AS; CSU; UC.

**130 Materials of Construction****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the construction constraints and program criteria for the selection and installation of building materials for residential and commercial construction projects. This course is intended for architectural design students, design professionals, construction trades people transitioning to supervisory positions, persons preparing for the trades portion of the general contractor's license exam, appraisers and others requiring knowledge of building materials and installation for residential and commercial buildings. (FT) AA/AS; CSU.

**135 Tree Identification****1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

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This field observation course provides students with the opportunity to observe, identify, and discuss a variety of trees used for landscape architectural design in southern California. Emphasis is placed on developing the student's working knowledge of regional tree nomenclature, identification and ecological requirements as they relate to landscape design and landscape management. This course is designed for students interested in identifying trees for use in landscape design. (FT) AA/AS; CSU.

### **136 Shrubs, Vines, Groundcover Identification**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This field observation course provides students with the opportunity to observe, identify, and discuss shrubs, vines, and groundcovers for landscape architectural design in southern California. Emphasis is placed on developing the student's working knowledge of regional plant nomenclature, identification and ecological requirements as they relate to landscape design and landscape management. This course is designed for students interested in identifying plants for use in landscape design. (FT) AA/AS; CSU.

### **155 Environmental Design I: Creating Exterior Spaces**

**3 hours lecture, 6 hours lab, 5 units  
Grade Only**

*Advisory:* Architecture 100 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Architecture 185. This course is an introduction to environmental design based on aesthetics and functions in the landscape. Emphasis is placed on the basic principles of design, including color theory and site planning. Students create concept drawings, models and color plans. This course is designed for students and professionals interested in garden design, landscape architecture, architecture and related fields. (FT) AA/AS; CSU.

### **170 Architectural Design**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment

Skill Levels R5 and W5; Mathematics 84 with a grade of "C" or better or equivalent.

This course is an introduction to architecture and environmental design. Emphasis is placed on the concepts of form and space as applied to two-dimensional (2-D) and three-dimensional (3-D) design projects. This course is intended for all students interested in architectural design. (FT) AA/AS; CSU; UC.

### **172 Architectural Design II**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Prerequisite:* Architecture 100 and Architecture 170, each with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5 or Architecture 220 and Mathematics 42, each with a grade of "C" or better or equivalent.

This course is a practical study of architectural design and project development. Emphasis is placed the creation and presentation of building designs. Topics include an introduction to contemporary design theory. This course is intended for architecture majors. (FT) AA/AS; CSU; UC.

### **175 Advanced Architectural Design I**

**3 hours lecture, 6 hours lab, 5 units  
Grade Only**

*Prerequisite:* Architecture 172 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Architecture 220 and Mathematics 42, each with a grade of "C" or better, or equivalent.

This course is a continuation of Architecture 172 in which more advanced design problems are assigned to students who have completed Architecture 172. The student designs several architectural projects with emphasis placed on the plan, section, building form and environmental issues. Design projects may include various regional student architectural competitions. Advanced contemporary architectural theory is presented. Students are required to present their design projects to the class. (FT) AA/AS; CSU; UC.

## 180 Advanced Architectural Design II

**3 hours lecture, 6 hours lab, 5 units**  
**Grade Only**

*Prerequisite:* Architecture 175 and 220, each with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Architecture 101, 105, 221, and Mathematics 42, each with a grade of "C" or better, or equivalent.

This course, designed for students interested in environmental design, is a continuation of ARCH 170, 172 and 175 in which advanced and more complex design problems are given to students who have completed Architecture 175. The student designs several architectural projects with emphasis placed on the plan, section, building form, environmental issues, urban design issues and energy conservation. Design projects may include various regional student architectural competitions. Contemporary architectural theory more advance than that covered in ARCH 175 is introduced. Students are required to present their design problems to the class. 3-D CAD technology is used in this class. (FT) AA/AS; CSU; UC.

## 190 Environmental Design II: Urban and Community Design

**3 hours lecture, 6 hours lab, 5 units**  
**Grade Only**

*Advisory:* English 48 and 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Architecture 155 with a grade of "C" or better, or equivalent.

This course is a study of the basic principles of design, composition and design process in the creation of urban and community spaces. Emphasis is placed on involving students in real design projects within the community and developing business communication skills. Participation in job shadowing with an industry professional is required. This course is designed for any student interested in environmental design. (FT) AA/AS; CSU.

## 200 Architectural Detailing

**1.5 hours lecture, 7.5 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Architecture 100 with a grade of "C" or better, or equivalent.

*Advisory:* Architecture 111 with a grade of "C" or better, or equivalent; and Mathematics 38 with a grade of "C" or better, or equivalent, or Assessment Skill Level M30.

This course is designed for students who wish to develop a knowledge of methods of construction and architectural drafting practices as applied to working drawings of fireplace, doors, windows, cabinets and wood stair details; involves extensive use and application of building codes and reference materials. (FT) AA/AS; CSU.

## 205 Estimating

**3 hours lecture, 3 units**  
**Grade Only**

This course examines methods and application in estimating quantities and costs of materials, labor and management. It includes unit and detailed cost estimates. (FT) AA/AS; CSU.

## 220 Graphic Design Communication I

**6 hours lab, 2 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a practical study in the development of architectural presentation drawing. Various media may include, but are not limited to, pencil, pen and ink, 3-dimensional (3-D) constructed models and color rendering techniques. This course includes an introduction to digital media techniques as applied to architectural presentation. This course is designed for architecture, landscape architecture and interior design majors. (FT) AA/AS; CSU; UC.

## 221 Graphic Design Communication II

**6 hours lab, 2 units**  
**Grade Only**

*Prerequisite:* Architecture 220 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a continuation of Architecture 220. It includes a series of miscellaneous problems designed to develop sketching, drawing and presentation skills as well as the creation of a digital rendering library. Various media may include, but are not limited to, pencil, pen and ink, 3-dimensional (3-D) digital models and color rendering techniques. This course includes an introduction to 3-D modeling

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and presentation software. This course is designed for architecture, landscape architecture and interior design majors. (FT) AA/AS; CSU; UC.

### 226 Architectural Theory

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course examines the theory of contemporary architectural design. Emphasis is placed on comparisons between architectural theory and current practice in the region. Students interview a local architect and present a critique of that architect's work to the class comparing and contrasting it with the theoretical information presented throughout the semester. This class is designed for architecture majors and anyone interested in architectural theory and practice. (FT) AA/AS; CSU; UC.

### 230 Sustainability in the Built Environment

**3 hours lecture, 6 hours lab, 5 units  
Grade Only**

*Prerequisite:* Architecture 100 or 112A and 155, 170, 190 or Interior Design 115 and Architecture 220 or Interior Design 112B, each with a grade of "C" or better, or equivalent.

*Advisory:* Mathematics 46 with a grade of "C" or better, or equivalent or Assessment Skill Level M40. This course is a study of sustainable building design. Students design and present projects with emphasis placed on current sustainable design methods and technologies. This course is designed for students majoring in architecture, landscape architecture or interior design. (FT) AA/AS; CSU; UC.

### 235 Plants and Design

**3 hours lecture, 6 hours lab, 5 units  
Grade Only**

*Advisory:* English 48 and 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 and W5; Architecture 136 or Architecture 155 with a grade of "C" or better, or equivalent.

This course is a hands-on study of planting design. Emphasis is placed on the application of historical and contemporary design styles to a variety of environmental conditions. Students design plant combinations to achieve a range of aesthetic, architectural and engineering functions. This course is designed for students and professionals

interested in garden design, landscape architecture, architecture, and related fields. (FT) AA/AS; CSU.

### 250 Site Engineering

**1.5 hours lecture, 7.5 hours lab, 4 units  
Grade Only**

*Prerequisite:* Architecture 100 with a grade of "C" or better, or equivalent.

*Advisory:* English 48, English 49 and Mathematics 46 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5, W5 and M40.

This course is a practical study of grading methods and drafting techniques as applied to site design. Topics include legal descriptions, property line layout, grading, cut and fill, roadways, drainage, site details, and related calculations. Students create grading plans to improve site designs. This course is intended for architecture and landscape architecture students. (FT) AA/AS; CSU.

### 290 Independent Study

**Hours by Arrangement, 1-3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Designed to deal with current problems and topics of special interest in architecture. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Art-Fine Art (ARTF)

### 100 Art Orientation

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level W6 and R6.

This course is a survey of the visual arts. Emphasis is placed on the various aesthetic approaches, philosophies and artistic orientations around the world in historical and contemporary perspective.

This course is intended for humanities majors and all students interested in art and/or art history. (FT)AA/AS; CSU; UC.

### 107 Contemporary Art

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; and Art-Fine Art 109 & Art-Fine Art 111, each with a grade of "C" or better, or equivalent.

This course provides a survey of contemporary art, examining issues and cultural influences. The emphasis is on the major movements, styles, artists and works of the late 20th and early 21st centuries within the historical context of this period. The course is designed for students interested in contemporary art, as well as for art majors, especially those who are focusing on design, painting, sculpture or ceramics. (FT) AA/AS; CSU; UC.

### 109 History of Modern Art

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. Art-Fine Art 110 and 111, each with a grade of "C" or better, or equivalent.

This survey course introduces modern art and its relevance to the development of western civilization. It emphasizes the Modernist period and covers major monuments and representative art works from Europe, Russia, and the Americas. This course is intended not only for art students but also for those who are interested in history, humanities, teaching, travel, and cultural enrichment. (FT) AA/AS; CSU; UC.

### 110 Art History: Prehistoric to Gothic

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a survey of the visual arts in western civilization from prehistory through the Gothic period. Emphasis is placed on representative art and architecture from Mesopotamia, Iran, Egypt, the Aegean, Etruscan, Rome and Greece. This course is intended for art majors and all students interested in art history, the humanities and culture. (FT) AA/AS; CSU; UC.

### 111 Art History: Renaissance to Modern

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is designed not only for art students, but also for those who are interested in history, humanities, travel, and cultural enrichment. It is an introductory survey of the visual arts that are recognized as salient in the development of western civilization from the Renaissance to the early twentieth century. The art styles covered in the course include Renaissance, Mannerism, Baroque, Rococo, Neo-Classicism, Romanticism, Impressionism, post-Impressionism, and early twentieth century Modern movements. (FT) AA/AS; CSU; UC.

### 113 Arts of Africa, Oceania, and the Americas

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is an introduction to the visual arts produced by selected peoples of Africa, Oceania, and the Americas from the prehistoric to contemporary periods. The topics covered in the course are representative of the art and architecture produced by groups from Africa, Oceania and the Americas emphasizing how art is representative of the cultural, religious, social, or political orientation of each region. This course is designed for art and art history majors and all who are interested in the humanities. (FT) AA/AS; CSU; UC Transfer Limitation: Fine Art (ARTF) 113 and 120 combined: maximum credit, one course.

### 115 African Art

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a history of African art. Emphasis is placed on aesthetics, styles and iconography as they relate to African culture and society. This course is designed for all students interested in art, art history and the humanities. (FT) AA/AS; CSU; UC Transfer

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Limitation: Fine Art (ARTF) 115 and 120 combined: maximum credit, one course. Fine Art (ARTF) 115 and Black Studies (BLAS) 111 combined: maximum credit, one course.

### **120 Native American Art**

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is an introductory survey of Native American art and architecture from the prehistoric period to the present. The course will examine the history of Native American cultures from the West, East, North and Southern regions of the North American Continent as represented in pottery, textiles, wood and stone carving, basket-making, jewelry and performance. This course is intended for art history majors and all students interested in the humanities. (FT) AA/AS; CSU; UC Transfer Limitation: Credit may only be granted for either Art- Fine Art (ARTF) 113 or 115 and 120 combined.

### **125 Art History: Arts of the Asian Continent**

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. This course provides a survey of paintings, sculpture, architecture, and associated fine arts from India, China, Japan, and other countries throughout the Asian continent. It emphasizes the social, religious, and political highlights of each culture and their effects on art forms from prehistoric to modern times. This course is designed not only for art students, but also for those who are interested in history, religion, philosophy, humanities, and cultural enrichment. (FT) AA/AS; CSU; UC.

### **150A Two-Dimensional Design**

**1.5 hours lecture, 4.5 hours lab, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is an introduction to two-dimensional space and form. Emphasis is placed on ways of organizing visual space into vivid and coherent images. This course is designed for students beginning a study of art and/or related disciplines. (FT) AA/AS; CSU; UC.

### **150B Beginning Graphic Design**

**1.5 hours lecture, 4.5 hours lab, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Fine Art 150A with a grade of "C" or better, or equivalent.

This is an introductory class in graphic communication which uses the computer as a tool for building and editing images. As in Art 150A, students address problems of visual form and organization, but with an emphasis in this course on visual constructions which convey information, and on type and text as graphic components of those constructions. This is a core course for art majors and would be useful for anyone interested in computer graphic applications. (FT) AA/AS; CSU; UC.

### **151 Three-Dimensional Design**

**1.5 hours lecture, 4.5 hours lab, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 150A with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level W6 and R6. This course is an introduction to three-dimensional space and form. Emphasis is placed on organizing visual space into valid and coherent structures. This course is designed for students beginning the study of art and/or related disciplines. (FT) AA/AS; CSU; UC.

### **152 Color Theory**

**1.5 hours lecture, 4.5 hours lab, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Art-Fine Art 150A with a grade of "C" or better, or equivalent.

This course is an introduction to color theory--the systematic study of color differences, dimensions, and relationships--to the study of color harmonies and discords, and to the development of strategies for achieving specific color effects. This is a course for painters and designers, and for anyone interested in making color choices. (FT) AA/AS; CSU; UC.

### **155A Freehand Drawing I**

**2 hours lecture, 4 hours lab, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

This is an introductory course designed to develop the student's ability to perceive and translate visual

relationships from 3-dimensional (3-D) space into 2-dimensional (2-D) drawings. Emphasis is placed on the use of art theory, basic art elements and compositional strategies to create pictorial space and compose original images based on observation. This course is intended for art majors and all students interested in learning freehand drawing whether or not they have previous art experience. (FT) AA/AS; CSU; UC.

### 155B Freehand Drawing II

**2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6 and Art-Fine Art 155A with a grade of "C" or better, or equivalent.

This course is an intermediate course in which students apply art principles and theory to create solutions to particular problems of graphic representation and expression. Emphasis is placed on visual analysis and inquiry in creating pictorial space and applying drawing media. Students are introduced to the use of interdisciplinary art forms and image making and explore New Genres as a means of continued intellectual and artistic development. This course is intended for art and graphic art students. (FT) AA/AS; CSU; UC.

### 161A Museum Studies/Gallery Exhibition Skills I

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course provides theory, instruction, and practical experience in all aspects of design and installation of art exhibitions. This course is also designed to give an overview of the history, functions and operations of art museums. The course is intended for art majors who are interested in exhibiting in galleries, as well as for other students seeking to learn the principles of curating and the functioning of museums. Under the guidance of the instructor, students participate in the installation of three exhibitions per semester. (FT) AA/AS; CSU.

### 161B Museum Studies/Gallery Exhibition Skills II

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 161A with a grade of "C" or better, or equivalent.

This course is a continuation of Fine Art 161A. It provides for more extensive understanding of the theory of exhibit display and additional practical experience in all aspects of installation of art exhibitions than in the first course. This course is also designed to examine in detail the functions and operations of art museums and other arts organizations. The course is intended for students planning to pursue a degree or a career in arts administration. Under the guidance of the instructor, students participate in the installation of three exhibitions per semester, taking increasing responsibility with each installation, including overseeing project designs created in the beginning class (ARTF 161A). Students develop and install an exhibit of their own choosing as their final project. (FT) AA/AS; CSU.

### 163 Art Museum/Gallery Internship

**192 hours other, 4 units  
Grade Only**

*Prerequisite:* Art-Fine Art 161B with a grade of "C" or better, or equivalent.

This course provides directed professional experience in an art museum or gallery in the San Diego area. Emphasis is placed on the practical application of skills related to exhibit installation and development of all aspects of an art exhibition. This course is designed for art majors and anyone interested in museum studies. (FT) AA/AS; CSU.

### 165A Composition in Painting I

**2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 155A with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6 and Art-Fine Art 150A and Art-Fine Art 152, each with a grade of "C" or better, or equivalent.

This course is an introduction to oil and acrylic painting methods and techniques. Emphasis is

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

placed on composition, color, and application of general design principles. A variety of subject matter, such as still-life, landscape, portrait and non-objective subjects, and a variety of stylistic approaches such as cubism, collage, realism and expressionism are explored. This course is designed to develop students' creative abilities and critical thinking in visual terms. This course is intended for students pursuing an Associate in Arts degree, preparing for a major in Art, and those who wish to improve their artistic skills. (FT) AA/AS; CSU; UC.

### **165B Composition in Painting II**

**2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 165A with a grade of "C" or better, or equivalent.

This course is the second semester of introduction to oil and acrylic painting methods and techniques. Emphasis is placed on the concepts of pictorial space, composition, and color. The course is designed to further develop students' creative abilities and critical thinking through the construction of images designed to address specific pictorial problems and goals. This course is intended for students pursuing an Associate in Arts degree, preparing for a major in Art, and those who wish to improve their artistic skills. (FT) AA/AS; CSU; UC.

### **165C Composition in Painting III**

**2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 165B with a grade of "C" or better, or equivalent.

This course is the third semester of introduction to oil and acrylic painting methods and techniques. Emphasis is placed on composition, color, and application of general design principles at a more advanced level of creativity and sophistication. This course is designed to develop students' creative abilities and critical thinking in visual terms through the use of individual assignments tailored to students' skills. This course is intended for students pursuing an Associate in Arts degree, preparing for a major in Art, and those who wish to improve their artistic skills. (FT) AA/AS; CSU; UC.

### **165D Composition in Painting IV**

**2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 165C with a grade of "C" or better, or equivalent.

This course is the fourth and final semester of introduction to oil and acrylic painting methods and techniques. Emphasis is placed on contemporary methods and theories related to conceptualism and new genre. Students produce large format and mural scale paintings. This course is designed to develop students' creative abilities and critical thinking in visual terms through the use of individual assignments tailored to students' skills. This course is intended for students pursuing an Associate in Arts degree, preparing for a major in Art, and those who wish to improve their artistic skills. (FT) AA/AS; CSU; UC.

### **174A Book Arts I**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 150A or Art-Graphic Design 100, each with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for Art-Graphic Design 174A.

This is an interdisciplinary course for art students and others who are interested in book arts. The course emphasizes visual form, physical structure, and expressive potential of the artist-made book, including essential elements, tools, and processes. Students construct books in Western and Asian traditions and use these concepts to create unique forms. This course is cross-listed as Art-Graphic Design (ARTG) 174A. (FT) AA/AS; CSU; UC.

### **175A Sculpture I**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 150A with a grade of "C" or better, or equivalent.

This course is an introduction to sculptural materials, processes and forms. The course helps students to appreciate the shapes and functions of sculpture (past and present) in the context of hands-on experience. This course is intended for transfer students planning to major in art and for all students interested in working in three-dimensional media. (FT) AA/AS; CSU; UC.

### **175B Sculpture II**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 175A with a grade of "C" or better, or equivalent.

This course continues the introduction to sculptural materials, processes and forms begun in Art 175A.



It differs from 175A in that it requires that students show more initiative in their selection and pursuit of sculptural goals, that they be more articulate in defining these goals, and that they extend their sculptural reach to include either new sculptural forms or new sculptural materials. This course is intended for transfer students planning to major in art and for all students interested in working in three dimensional media. (FT) AA/AS; CSU; UC.

### **175C Sculpture III**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 175B with a grade of "C" or better, or equivalent.

This course continues the acquaintanceship with sculptural materials, processes and forms begun in Art 175A and 175B. It differs from 175B in that it requires that students show more self-reliance in their selection and pursuit of sculptural goals, and that the goals they select be more complex and ambitious. This course is intended for transfer students planning to major in art and for all students interested in working in three-dimensional media. (FT) AA/AS; CSU; UC.

### **190A Black and White Art Photography**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level W5.

Photography is taught as a medium for self-exploration and self expression. The course emphasizes the art making-process, in which photographic images and concepts are discussed within social, historical, aesthetic, and technical contexts as well as within the context of photographic genres. Technical instruction is provided in camera operation and exposure, darkroom procedures for film and print development, and print presentation. This course is intended for students preparing for a major in art as well as those interested in photography. (FT) AA/AS; CSU; UC.

### **191 Cultural Influences on Photography**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; Art-Fine Art 190 with a grade of "C" or better, or equivalent.

This course is a study of the emergence of photographic traditions within the context of the social, political, economic and scientific forces that have influenced particular genres in the medium. Emphasis is placed on the interrelation of photography and art and focuses on the evolution of major historical types and schools of image making and their relationship to prevailing cultural concerns. This interpretive analysis of significant developments in photography is structured as a balance of lectures, slide presentations and discussion. The course is designed for photographic art majors and all art students interested in improving their ability to understand and discuss photography's unique historical, material and narrative potential. (FT) AA/AS; CSU; UC.

### **194 Critical Photography**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; Art-Fine Art 190A with a grade of "C" or better, or equivalent.

This course examines principles of art criticism and uses the critical process in conceptualizing and producing photographic images. It explores photographic theory and its application to interpreting and evaluating photographic media. Aesthetic and ethical concerns are presented using historical references and perspectives that allow students to place their own work within the context of contemporary critical issues/concerns. The course examines traditional schools of image making and contemporary thinking and practice as a means to broaden the student's ability in composition, presentation and use of light. This course is designed for photographic art majors and all art students interested in honing their art criticism and studio skills. (FT) AA/AS; CSU; UC.

### **195A Ceramics I**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

This course is an introductory level ceramics course in which students design and construct hand-built and wheel-thrown ceramic objects. Students learn form and surface enrichment, use glazes, and load kilns. This course is designed to meet art major and transfer requirements for ceramic or art majors and also serves students interested in developing ceramic skills. (FT) AA/AS; CSU; UC.

### 195B Ceramics II

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 195A with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an intermediate level ceramics course in which students design and construct wheel thrown and handbuilt ceramic objects emphasizing form and surface enrichment, use molds, weigh, mix and use glazes, as well as load kilns and fire electric kilns. This course is designed for major requirements and transfer by ceramic or art majors and for students interested in developing ceramic skills. (FT) AA/AS; CSU; UC.

### 196 Clay and Glaze Technology

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 195A with a grade of "C" or better, or equivalent.

*Advisory:* Art-Fine Art 195B or Art-Fine Art 197B with a grade of "C" or better, or equivalent.

This is a survey of technical processes in ceramics that introduces students to basic and advanced techniques of glaze formulation, mixing, and testing. The course also acquaints students with the composition of clays, stains, and engobes and how these respond to different kilns and firing conditions. This course is designed to help ceramics majors and other interested students understand the physical and chemical nature of ceramic materials. (FT) AA/AS; CSU; UC.

### 197A Handbuilding Ceramics I

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 195A with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: English 48 and English 49, each with a grade of "C" or

better, or equivalent, or Assessment Skill Levels R5 and W5.

This course provides instruction in the design and construction of hand-built ceramic forms. Students create ceramic forms emphasizing form and surface enrichment, while gaining experience applying glazes and loading kilns. This course is designed for art majors and for students interested in developing ceramic skills. (FT) AA/AS; CSU; UC.

### 197B Handbuilding Ceramics II

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 197A with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an intermediate level ceramics course in which students design and construct hand-built ceramic forms emphasizing form and surface enrichment, weigh, mix and use glazes, as well as load kilns and fire electric kilns. This course is designed for major requirements and transfer by ceramic or art majors and for students interested in developing ceramic skills. (FT) AA/AS; CSU; UC.

### 198A Introduction to Printmaking I

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 150A and 155A, each with a grade of "C" or better, or equivalent.

This course is an introduction to the basic printmaking media of intaglio, relief, and monoprinting and is designed for art students and anyone interested in printmaking. Students study techniques to create and print plates; investigate papers and select for properties; analyze, formulate and compare aesthetic strategies for image-making; and practice principles of editioning and conservation of prints. This course satisfies requirements for the major in art with a two-dimensional or design emphasis. (FT) AA/AS; CSU; UC.

### 198B Introduction to Printmaking II

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 198A with a grade of "C" or better, or equivalent.

This course builds on basic skills learned in Fine Arts 198A. More complex processes such as photo

intaglio, collagraph, and reduction color relief will be introduced. Students apply aesthetic criteria in analyzing their creative choices and examine contemporary printmaking in world cultures. This course is a recommended elective for students preparing to major in fine art with an emphasis on two-dimensional and graphic design. (FT) AA/AS; CSU; UC.

### **198C Introduction to Printmaking III**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 198B with a grade of "C" or better, or equivalent.

This course focuses on developing a personal visual language using the knowledge gained from 198A and 198B. Print processes of advanced complexity such as multiple-plate intaglio, double drop printing, mezzotint, and white ground are addressed. Students experiment with combining print media, investigate U.S. print houses, and create a cohesive body of artwork for presentation. This course is intended for students who are preparing for a major in art as well as others who wish to develop their knowledge of printmaking. (FT) AA/AS; CSU; UC.

### **200 Photographic Composition and Theory**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* Art-Fine Art 190A with a grade of "C" or better, or equivalent.

This course is an advanced study of the theory and practice of black and white photographic image making. Emphasis is placed on increasing students' visual literacy with black and white photography from both technical and conceptual perspectives. Topics include composition, creative control of materials, light logic and advanced photographic theory. This course is intended for art majors and all those interested in increasing their competency in photographic image making, exploring new methodologies and producing gallery-level art work. (FT) AA/AS; CSU.

### **210A Life Drawing I**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Art-Fine Art 150A and 155A, each with a grade of "C" or better, or equivalent.

This basic course in figure drawing helps students understand form, structure, and proportions of the human figure as they apply to visual expression. Students learn about human anatomy and physical features, composition and perspective, and developing and evaluating their personal style. (FT) AA/AS; CSU; UC.

### **210B Life Drawing II**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* Art-Fine Art 210A with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Art-Fine Art 150A and 155A, each with a grade of "C" or better, or equivalent.

This course is a continued study and refinement of skills and concepts acquired in ARTF 210A. Students develop the skills needed to successfully draw the human form. Areas covered include further study of the skeletal and muscular systems in humans, perception of form, contour drawing, and modeling. (FT) AA/AS; CSU; UC.

### **210C Life Drawing III**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

Figure drawing and composing related to the individual interests of the student. Enrollment based upon space availability and previous high achievement/portfolio. (FT) AA/AS; CSU; UC.

### **220A Life Sculpture I**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 150A with a grade of "C" or better, or equivalent.

This is an introduction to the naturalistic and dynamic representation of the human body. Students sculpt from observation of live, nude models in poses of extended duration. In the process, students come to understand seeing as a learned skill. This course is intended for transfer students planning to major in art and for all students interested in the problems inherent in representing what they see. (FT) AA/AS; CSU; UC.

**AA/AS** = Associate Degree Applicable  
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**UC** = University of California Applicable

**220B Life Sculpture II****1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 220A with a grade of "C" or better, or equivalent.

This course continues the introduction to naturalistic and dynamic representation of the human body (done from observation of live models in poses of extended duration) begun in Art 220A. This course is intended for transfer students planning to major in art and for all students interested in developing skills of naturalistic representation. (FT) AA/AS; CSU; UC.

**220C Life Sculpture III****1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 220B with a grade of "C" or better, or equivalent.

In this course students learn to extend their skill in representing the human figure convincingly in three dimensions (developed in Art 220A and Art 220B) to naturalistic representation in more than one style. This course is intended for transfer students planning to major in art and for all students interested in developing sophisticated skills of naturalistic representation. (FT) AA/AS; CSU; UC.

**231 Introduction to Digital Art****2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 150A and Art-Fine Art 155A, each with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in Multimedia 101 or Art-Fine Art 150B, each with a grade of "C" or better, or equivalent.

This course provides an overview of digital art strategies and practices and their relationship to traditional fine art practices. Emphasis is placed on the development of computer technology and its impact on contemporary art since the 1960s. Discussions and studio assignments encompass digital imaging strategies, software art, teleconference art, interactive art, immersive installation art, web art/distance art and activism. Motion-based media such as digital animation, and digital video are also discussed. This course is designed for students interested in digital art. (FT) AA/AS; CSU; UC.

**232 Introduction to Digital Drawing and Painting****2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 231 or 150A, 155A and 165A, each with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in Multimedia 101 or Art-Fine Art 150B, each with a grade of "C" or better, or equivalent.

This course provides an overview of digital art strategies and practices and their relationship to traditional fine art drawing and painting. Students produce digital drawings and paintings using digital raster and vector based applications to creatively replicate and expand traditional drawing and painting media. Students extend and explore the hand drawn mark and painted surface in the digital realm. This course is designed for fine art and multimedia students. (FT) AA/AS; CSU; UC.

**233 Introduction to Digital Photographic Imaging****2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 190A, 231 and 150A, each with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in Multimedia 101 or Art-Fine Art 150B, each with a grade of "C" or better, or equivalent.

This course provides an overview of digital photographic art strategies and practices and their relationship to traditional photographic fine art practices. Emphasis is placed on the digital camera, digital photo image processing, digital photomontage, and mixed media compositions. The students are introduced to the manipulation and production of digital image compositions using software applications such as Adobe Photoshop to extend traditional photographic art strategies. This course is designed for fine art and multimedia students. (FT) AA/AS; CSU; UC.

**260 Studio Art Studies****1.5 hours lecture, 4.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 155B, 165D, 175C, 190A, 197B, 198C or 231.

This course is intended for advanced art students. Students enrolled in this course work closely with the instructor to develop a transfer portfolio, artist statement, curatorial concept and/or resume exhibition list. (FT) AA/AS; CSU.

**280A 2-Dimensional Art Studio Lab****3 hours lab, 1 unit  
Pass/No Pass Only**

*Corequisite:* Art-Fine Art 150A, 152, 155A, 155B, 165A, 165B, 165C, 165D, 198A, 198B, 198C, 210A, 210B or 210C.

This course is a supervised studio laboratory in 2-dimensional media. Emphasis is placed on technical refinement of personal drawing and painting skills. This course is designed for fine art majors. This course may be taken four times for credit. Students must demonstrate increased proficiency with each repetition. AA/AS; CSU.

**280B 3-Dimensional Studio Lab****3 hours lab, 1 unit  
Pass/No Pass Only**

*Corequisite:* Art-Fine Art 151, 175A, 175B, 175C, 220A, 220B or 220C.

This course is a supervised studio laboratory in 3-dimensional media. Emphasis is placed on technical refinement of fabrication skills specific to the various media explorations presented in the accompanying courses. This course is designed for fine art majors. This course may be taken four times for credit. Students must demonstrate increased proficiency with each repetition. AA/AS; CSU.

**280C Ceramics Studio Lab****3 hours lab, 1 unit  
Pass/No Pass Only**

*Corequisite:* Art-Fine Art 195A, 195B, 197A or 197B.

This course is a supervised studio laboratory in ceramics. Emphasis is placed on technical refinement of personal ceramic skills. This course is designed for fine arts majors. This course may be taken four times for credit. Students must demonstrate increased proficiency with each repetition. AA/AS; CSU.

**280D Digital Art Studio****3 hours lab, 1 unit  
Pass/No Pass Only**

*Corequisite:* Art-Fine Art 150B, 231, 232 or 233.

This is a supervised studio laboratory in digital art and graphic design. Emphasis is placed on the technical refinement of digital imaging skills. This course is designed for fine art majors. This course may be taken four times for credit. Students must demonstrate increased proficiency with each repetition. AA/AS; CSU.

**280E Museum Studies Lab****3 hours lab, 1 unit  
Pass/No Pass Only**

*Corequisite:* Art-Fine Art 161A, 161B or 163.

This course is a supervised studio laboratory in digital support for Museum Studies. Emphasis is placed on the exploration and refinement of technical skills specific to the creation of digital documents that support museum and art exhibits. This course is designed for fine art majors. This course may be taken four times for credit. Students must demonstrate increased proficiency with each repetition. AA/AS; CSU.

**280F Photography Studio Lab****3 hours lab, 1 unit  
Pass/No Pass Only**

*Corequisite:* Art-Fine Art 190A.

This course is a supervised studio laboratory for students concurrently enrolled in Art Department Photography classes. Emphasis is placed on the refinement of students' photographic and visual development in film processing, printing, studio work and print finishing. This course is designed for fine art majors. This course may be taken four times for credit. Students must demonstrate increased proficiency with each repetition. AA/AS; CSU.

**281 Issues in Visual Art (Lab)****3-6 hours lab, 1-2 units****Letter Grade or Pass/No Pass Option**

The presentation of selected topics in the visual arts that are of student interest and/or importance in art. Specific areas for investigation will be announced in the class schedule for each semester. (FT) AA/AS; CSU.

**290 Independent Study****Hours by Arrangement, 1-3 units****Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration. Requires consent of the department.

Open only to those students who have exhausted departmental offerings in their areas of emphasis. This course may be taken four times with different content for a maximum of six units. (FT) AA/AS; CSU.

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**UC** = University of California Applicable

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

### Asian Studies

An interdisciplinary approach  
(See selected courses in English, page 346, History, page 366, Language Arts and Humanities, page 202, Music, page 398, and Philosophy, page 411)

### Asian Pacific American Studies

An interdisciplinary approach  
(See selected courses in Filipino Studies, page 357, and History, page 366)

## Astronomy (ASTR)

### 101 Descriptive Astronomy

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

This course is an introductory survey of contemporary astronomy. Topics covered include the solar system, stars and stellar evolution, the Milky Way galaxy and cosmology. This course is designed for students planning to take advanced courses in the Physical and Earth Sciences and for transfer students planning to major in astronomy. (FT) AA/AS; CSU; UC.

### 109 Practice in Observing

**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in: Astronomy 101 with a grade of "C" or better, or equivalent.  
This laboratory course, emphasizing field experience, includes constellation study, interpretation of celestial cycles, and descriptive observations (with and without telescopes) of a wide variety of astronomical objects and events. The course is designed to supplement Astronomy 101 as a general-education laboratory course in the natural science area. (FT) AA/AS; CSU; UC Transfer Limitation:

Astronomy (ASTR) 109 and 111 combined: maximum credit, one course.

### 111 Astronomy Laboratory

**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in: Astronomy 101 with a grade of "C" or better, or equivalent.

This laboratory course features exercises and experiments covering topics ranging across the spectrum of astronomy. The course deals with the foundations of astronomy, and may include telescopes, planetary astronomy, stellar astronomy and galactic astronomy. Indoor exercises may involve computer simulations. Outdoor exercises may be required. The course is designed to supplement Astronomy 101 as a general education laboratory course in the natural science area. (FT) AA/AS; CSU; UC Transfer Limitation: Astronomy (ASTR) 109 and 111 combined: maximum credit, one course.

### 290 Independent Study

**Hours by Arrangement, 1-3 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

This course provides for additional research and academic experiences for students with special interests. The course consists of individualized research problems, conferences with the instructor at prearranged intervals and a final written exam or report on the work completed. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Biology (BIOL)

### 100 Natural History — Environmental Biology

**3 hours lecture, 3 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Completion of or concurrent enrollment in: English 48 and English 49, each with a grade of “C” or better, or equivalent, or Assessment Skill Levels R5 and W5.

Lecture topics include basic principles of ecology, the nature of the physical environment, the aquatic environments, the terrestrial environments and population dynamics. This is a community approach, fitting organisms into their proper role in nature. The laboratory is coordinated with lectures emphasizing the plant and animal communities of Southern California. Several field trips will be required, some on the weekend. (FT) AA/AS; CSU; UC Transfer Limitation: Biology (BIOL) 100 and 120 combined: maximum credit, one course.

### 107 General Biology - Lecture and Laboratory

**3 hours lecture, 3 hour lab, 4 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 46, each with a grade of “C” or better, or equivalent, or Assessment Skill Levels R5 and W5 and M40.

*Limitation on Enrollment:* This course is not open to students with credit for Biology 103, 104, or 105, 106, or 210A and 210B.

This course is an examination of living organisms and their environment. The lecture and laboratory are intended for students planning on taking more advanced courses in the Life Sciences or students majoring in Education, Child Development, Physiological Psychology, or related areas. Topics that are emphasized in this course include the fundamental chemical and physical processes common to all living organisms, the interactions between organisms and their environment, classical and molecular genetics, metabolism, plant and animal anatomy and physiology, animal behavior, evolution, cellular and molecular biology, and the experimental and cognitive processes used to examine these fields. (FT) AA/AS; CSU; UC Transfer Limitation: No credit for Biology (BIOL) 105, 106 or 107 if taken after 210A, 210B.

### 110 Introduction to Oceanography

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a survey of physical, chemical, geological, and biological oceanography. This course is designed for all students interested in marine science. (FT) AA/AS; CSU; UC.

### 115 Marine Biology

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* English 101 or English 105, each with a grade of “C” or better, or equivalent or Assessment Skill Level R6 and W6.

This course is a study of marine biology. Emphasis is placed on marine organisms, their natural history and special adaptations to the ocean environment. Topics include the marine environment, plankton, marine plants, marine invertebrates, fishes, marine birds, marine reptiles, and marine mammals. Students participate in several field trips to local marine habitats and museums. This course is intended for all students interested in marine biology. (FT) AA/AS; CSU; UC.

### 120 The Environment of Man

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of “C” or better, or equivalent, or Assessment Skill Levels R5 and W5.

This is an introductory course that examines the immediate and long-range causes and effects of air, water, and land pollution on the environment and human health. The course also explores basic concepts of ecology, overpopulation, natural resources, and the sustainability of the environment and its biodiversity. The study of positive solutions to the ecological dilemma is addressed. This course is designed for general students interested in the environment and for those students majoring in environmental sciences. (FT) AA/AS; CSU; UC Transfer Limitation: Biology (BIOL) 100 and 120 combined: maximum credit, one course.

**AA/AS** = Associate Degree Applicable  
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**UC** = University of California Applicable

**130 Human Heredity****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course introduces students to the concepts and applications of human heredity. It deals with both classical Mendelian genetics and modern molecular genetics. Topics include gamete formation, human karyotypes, genetic crosses, sex-linked inheritance, structure and function of DNA and RNA, gene expression, transcription and translation, genetic engineering, and population genetics. (FT) AA/AS; CSU; UC.

**160 Elements of Human Anatomy and Physiology****3 hours lecture, 3 hours lab, 4 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

*Limitation on Enrollment:* This course is not open to students with previous credit for Biology 230 or 235.

This course is an introduction to the structure and functions of the human body. Emphasis is placed on the human body systems including the integumentary, skeletal, muscular, nervous, endocrine, reproductive, cardiovascular, lymphatic, respiratory, excretory, and digestive systems. This course is designed for students preparing for allied health occupations such as radiological technician, physical therapist assistant, and medical laboratory technician, as well as students interested in learning about the human body. AA/AS; CSU.

**180 Plants and People****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This is an introductory course that examines the interdependence of humans and plants. This course is intended for all that want to learn about the uses of plants, especially those students with an interest in biology, anthropology, environmental sciences, and/or agriculture. Emphasis is on plant ecology as well as the basic biology of plant groups that provide us with food, medicine, recreation, decoration, and material goods as well as those that produce stimulating, intoxicating, or harmful effects. Basic principles of taxonomy, cell structure, plant

physiology, plant anatomy, ecology and genetics are explored as they relate to these plants. Current environmental and economic issues and the role of molecular genetics in future plant development and the importance of genetic diversity are also examined. (FT) AA/AS; CSU; UC Transfer Limitation: Credit will only be granted for either Biology (BIOL) 180 or 215 and 250 combined. No credit for Biology (BIOL) 180, 215 or 250 if taken after 210A or 210B.

**200 Biological Statistics****2 hours lecture, 3 hours lab, 3 units****Grade Only**

*Prerequisite:* Biology 107 or 210A; and Mathematics 116, each with a grade of "C" or better, or equivalent.

This is an introductory course in statistics using biological examples and experimental design. Students learn methods and gain experience in defining and solving quantitative problems in biology. Descriptive and inferential statistics, basic probability, binomial and normal distributions are introduced. Students learn to estimate population parameters, test hypotheses, linear regression and correlation using clinical and biological data and experiments. This course is applicable for biological science majors and required for preparation for San Diego State University biology majors. (FT) AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 119, Biology (BIOL) 200 or Physics (PHYS) 258 combined: maximum credit, one course.

**205 General Microbiology****3 hours lecture, 6 hours lab, 5 units****Grade Only**

*Prerequisite:* Biology 107 and Chemistry 100 and 100L or Chemistry 152 and 152L, each with a grade of "C" or better, or equivalent.

This introductory course covers fundamental aspects of microbiology including taxonomy, structure, physiology, reproduction, genetics, control, immunology, diversity, and host-symbiont relationships. Lab work emphasizes basic techniques for culturing, staining, counting, and identifying microorganisms. This course is intended for students pursuing careers in allied health fields and may meet entry requirements for these allied health fields. (FT) AA/AS; CSU; UC.



## 210A Introduction to the Biological Sciences I

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50; and Chemistry 152 and Chemistry 152L, each with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and concurrent enrollment in Chemistry 200 and Chemistry 200L.

This course covers biological chemistry, cell structure and function, cellular metabolism, classical and molecular genetics, and evolutionary biology. This is the first semester of a two-semester sequence designed for biological science and pre-professional majors. (FT) AA/AS; CSU; UC.

## 210B Introduction to the Biological Sciences II

**3 hours lecture, 3 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Biology 210A with a grade of "C" or better, or equivalent; and Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50.

This is an introductory course which is a continuation of Biology 210A. This course emphasizes the developmental and physiological processes of the Five Kingdoms, the phylogenetic relationships of major evolutionary groups of organisms, behavior, and ecological principles including population and community ecology. (FT) AA/AS; CSU; UC.

## 215 Introduction to Zoology

**2 hours lecture, 6 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Biology 107 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

This is an introductory course that surveys the basic principles of animal biology. These principles include morphology, life processes and evolutionary relationships of the invertebrates and vertebrates. Laboratories include the identification of organisms, dissection and recognition of the anatomy of varied animal representatives, embryological development, histology, behavior and physiology. This course is designed for Biology Majors and for students seeking to satisfy degree requirements in allied health and animal sciences majors. (FT) AA/AS; CSU; UC Transfer

Limitation: Credit will only be granted for either Biology (BIOL) 180 or 215 and 250 combined. No credit for Biology (BIOL) 180, 215 or 250 if taken after 210A or 210B.

## 230 Human Anatomy

**2 hours lecture, 6 hours lab, 4 units  
Grade Only**

*Prerequisite:* Biology 107 or Biology 160, each with a grade of "C" or better, or equivalent.

This course is a systems approach to the study of human body structure from the microscopic level of organization to the gross level. Structure related to function from study of histological slides, photomicrographs, anatomical models and charts, and mammalian (cat) dissection. This course is intended to meet the requirements of students in the fields of nursing, physical therapy, recreational therapy, occupational therapy, athletic training, chiropractic, psychology, physical education, and biology or those who wish to extend their knowledge of the human body beyond the scope of introductory biology. (FT) AA/AS; CSU; UC.

## 231 Media Experiences in Human Anatomy

**1 hour lecture, 1 unit  
Pass/No Pass**

*Corequisite:* Biology 230.

This course is self-paced study of anatomy through the use of computer software, microscope slides, anatomical models, and graphics. This course is intended to meet the requirements of students in the fields of nursing, physical therapy, recreational therapy, occupational therapy, athletic training, chiropractic, psychology, physical education, and biology or those who wish to extend their knowledge of the human body beyond the scope of introductory biology. AA/AS; CSU.

## 232 Experience in Human Dissection

**3 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Biology 230 with a grade of "C" or better, or equivalent.

*Advisory:* Preregistration counseling with instructor is highly recommended.

This course provides a supervised study and actual experience in human dissection. Mastery of

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dissection techniques and human anatomy at this level assists students pursuing careers in nursing, medicine, and other allied health professions. (FT) AA/AS; CSU.

### 235 Human Physiology

**3 hours lecture, 3 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Biology 107 with a grade of "C" or better, or equivalent.

*Advisory:* Biology 230 and Chemistry 100 and 100L, each with a grade of "C" or better, or equivalent. This is an introductory course which investigates the functions of the human body with emphasis on the nervous, endocrine, muscular, cardiovascular, respiratory, digestive, excretory and reproductive systems. This course is intended to meet requirements for students in the fields of nursing, paramedical sciences, psychology, biology and physical education. AA/AS; CSU; UC.

### 250 Introduction to Botany

**2 hours lecture, 6 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introduction to the fundamental principles of the anatomy, development, physiology, reproductive biology, ecology and evolution of the major plant groups, with emphasis on the flowering plants. The course is targeted towards students with no previous college level biology, but is also appropriate as a lower division course for biology majors. (FT) AA/AS; CSU; UC Transfer Limitation: Credit will only be granted for either Biology (BIOL) 180 or 215 and 250 combined. No credit for Biology (BIOL) 180, 215 or 250 if taken after 210A or 210B.

### 255 California Plants

**3 hours lecture, 3 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of both native and ornamental plants of Southern California and the groups to which they belong. The course emphasizes techniques of plant identification, collection, preservation, and the discussion of habitat preferences and plant associations. Frequent field trips are scheduled during laboratory periods. Some all-day Saturday field trips may be substituted for

the regularly scheduled laboratory periods. This course is for students with an interest in the flora of Southern California and for those students majoring in landscape design, environmental science, and botany. (FT) AA/AS; CSU; UC.

### 290 Independent Study

**Hours by Arrangement, 1-3 units  
Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

A student may sign up for 1 to 3 units each semester for a maximum of 6 units. For advanced students in biology who wish to continue with a special investigation. The course consists of individualized research problems, conferences with the instructor at prearranged intervals and a final report on the work completed. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Black Studies (BLAS)

### 100 Introduction to Black Studies

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 or English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 or W5.

This course is a survey of the Black Studies discipline including its social and academic origins, goals and development. Emphasis is placed on providing students with an understanding of the fundamental areas of study within the field and of the interdisciplinary approach to studying the African experience in America and the world. This course is intended for students who wish to major in Black Studies and/or who wish to gain general knowledge of the Black experience. AA/AS; CSU; UC.

**104 Black Psychology****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introduction to psychological concepts and principles as they relate to African American behaviors and lifestyles. Emphasis is placed on comparing Euro-American theories as they have been traditionally applied to African Americans with contemporary Afri-centric theories and the ways in which they may be applied to create a greater understanding of the behaviors, lifestyles and psychological needs of African Americans. (FT) AA/AS; CSU; UC Transfer Limitation: Psychology (PSYC) 101 and Black Studies (BLAS) 104 combined: maximum credit, one course.

**110 African American Art****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6.

This course is a historical survey of African American art from 1650 to present, including the influence of African, European and Native American art styles and traditions. This course is intended not only for Black Studies and art students but also for those who are interested in history, humanities, teaching, travel, and cultural enrichment. (FT) AA/AS; CSU; UC.

**111 African Art History****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 or English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 or W5.

Surveys the art styles and cultural traditions of various African cultures from 4,000 BC to the present. AA/AS; CSU; UC Transfer Limitation: Black Studies (BLAS) 111 and Art-Fine Art (ARTF) 115 combined: maximum credit, one course.

**116 Contemporary Social Problems from a Black Perspective****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 or English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 or W5.

This course is a sociological analysis of institutional racism, the process of social change and how it

affects African Americans. Emphasis is placed on broad contemporary issues as they relate to African Americans, such as the prison industrial complex, gender and health care. This course is intended for Black Studies majors and anyone interested in history, teaching and current events. (FT) AA/AS; CSU/UC Transfer Course List.

**120 Black Music****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of African American musical forms and styles in historical perspective. Emphasis is placed on providing students with an understanding and appreciation for the African roots of a variety of African American music genres. (FT) AA/AS; CSU; UC.

**125 Dynamics of the Black Community****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

Involves the active participation of the student in an effort to sensitize him/her to the needs of the Black community. The student participates in projects, attends outside lectures and conferences, and becomes actively involved in the community development. (FT) AA/AS; CSU.

**130 The Black Family****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the African American family. Emphasis is placed on the socio-cultural and psychological issues surrounding the history of the Black family in America and contemporary African American dating, marriage and divorce patterns, gender roles and extended family, kin and community networks. (FT) AA/AS; CSU; UC.

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**UC** = University of California Applicable

**140A History of the U.S., Black Perspectives**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 or English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 or W5.

This course is a survey of American history from the colonial period to 1877, with emphasis on the experience of African Americans and the contributions they have made to the political, social, economic, and cultural development of the country. This course is intended for transfer students planning to major in African American Studies, history, political science, or other social sciences. The complete one-year course, 140A and 140B, satisfies the graduation requirement in American Institutions. (FT) AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150- 151, Black Studies (BLAS) 140A-140B, and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

**140B History of the U.S., Black Perspectives**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 or English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 or W5.

This course covers the history of the United States from Reconstruction to the present with emphasis on African American experience and contributions. It focuses on political, social, economic, cultural, and intellectual trends, the persistence of racism, and the struggle for full equality for all Americans. NOTE: The complete one-year course of Black Studies 140A and 140B satisfies the graduation requirements in American institutions and California state government. AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150- 151, Black Studies (BLAS) 140A-140B, and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

**145A Introduction to African History**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a survey of African History from the Stone Age through the beginnings of European colonization in the 1870s. Emphasis is placed on providing students with a broad presentation of the geographical features of the continent and

its connections to the rest of the world, local and regional ways of life and institutions, slavery, European conquest and colonization and African resistance to colonization. (FT) AA/AS; CSU; UC.

**150 Black Women in Literature and the Media**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 or English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 or W5.

Analyzes the literary achievements of Black women. Examines the images of Black women in literature and the media, past and present, including realistic self-images as presented by Black women themselves. (FT) AA/AS; CSU; UC.

**155 Afro-American Literature**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 or English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 or W5.

This course is a survey of African American cultural expression through language and literature in historical perspective. Emphasis is placed on understanding and interpreting the cultural, ethnic and political dynamics that influence literary, musical and theoretical texts. Topics include African praise songs, slave narratives, African American folktales, poetry, lyrics, spirituals, raps, short stories, novels, speeches and essays. (FT) AA/AS; CSU; UC.

**165 Sexuality and Black Culture**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 or English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 or W5.

*Limitation on Enrollment:* This course is not open to students with credit for Black Studies 265: Psychology and Social Aspects of Black Sexuality. This course will provide an in-depth examination and analysis of social and psychological factors that determine the nature of human sexuality in the Black community. AA/AS; CSU; UC Transfer Limitation: Psychology (PSYC) 137 and Black Studies (BLAS) 165 combined: maximum credit, one course.

**175 Psycho-History of Racism and Sexism**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 or English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 or W5.

This course will provide a comparative analysis of the historical and psychological impact of racism and sexism on American people, with particular emphasis on the impact of both ideologies on Black and White people. AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

Class sections of the following courses utilize a variety of reading and/or research materials from a Black perspective. See page 346 for complete English course descriptions and page 311 for complete Communications Studies course descriptions. Refer to the class schedule under the particular subject listing for designated sections.

**English**

- 43 English Review
- 49 Basic Composition (no longer degree applicable)
- 101 Reading and Composition
- 105 Composition and Literature
- 205 Critical Thinking and Intermediate Composition

**Communications Studies**

- 103 Oral Communication

**Building Construction Technology (BLDC)**

**120 Blueprint Reading**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W5 and M30.

Introduction to the reading of construction blueprints and specifications. Analysis of the methods of representation of building materials, symbols, measurements and methods of

construction and inspection. (FT) Associate Degree Credit only and not Transferable.

**130 Construction Practices I**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20. Practical application of building techniques using various materials. Related to residential and commercial building: layout, forms, structure framing using construction math, site-layout using builders transit, and concrete problems related to the trade. (FT) Associate Degree Credit only and not Transferable.

**170 Construction Practices II**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20. A practical application of building techniques using various building materials. Includes exterior roof coverings, wall finish coverings of wood and manufactured products, interior drywall, paneling finishes and trim, constructing cabinets, hanging doors, setting windows, completing stair layout. Technical problems related to other trades; codes and inspections. (FT) Associate Degree Credit only and not Transferable.

**230 Construction Practices III**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20; and Building Construction 170 with a grade of "C" or better, or equivalent. Practical application of building techniques in roof framing, stair building, door hanging, finish carpentry and the methodology involved in exterior, interior, wall coverings, painting and acoustical finishes. Includes blueprint interpretation, math and estimating. (FT) Associate Degree Credit only and not Transferable.

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**UC** = University of California Applicable

**245 Building Inspection****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Architecture 130 and Building Construction 120, 260, and 268, each with a grade of "C" or better, or equivalent.

A survey of the organization of the typical planning department and the responsibilities of the building inspector. Associate Degree Credit only and not Transferable.

**250 Construction Trades Management I****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20.

An introduction to construction films and techniques of successful operation. Types of supplies, inspections, and management problems. How to deal with individuals and groups. Opportunities in labor and management. The use of the computer to operate a professional construction business. (FT) Associate Degree Credit only and not Transferable.

**255 Construction Trades Management II****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20; and Building Construction 250 with a grade of "C" or better, or equivalent.

An advanced study directed to protect management team members, superintendents, engineers, architects, contractors or any person who intends to manage or invest in the construction business. Includes up-to-date methods of organization, planning, sales promotion and leadership development, and the use of the computer to operate a professional construction business. Associate Degree Credit only and not Transferable.

**260 Building Codes and Zoning****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20.

This course covers the fundamentals of local building laws and ordinances and administration.

Also included are zoning and land use, building requirements by types of construction and occupancy, fire and safety regulations for both residential and commercial construction and types of inspections. Associate Degree Credit only and not Transferable.

**268 Electrical, Plumbing, and Mechanical Codes****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20.

This course provides the fundamentals of code application, interpretation and correlation with the National Electrical Code, Uniform Plumbing Code, Uniform Mechanical Code, Uniform Fire Code, Solar Code, California Energy Commission Regulations and inspections. (FT) Associate Degree Credit only and not Transferable.

**295 Building Contractor's License Law****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20.

Designed to inform management, contractors, subcontractors and craftsman of their basic legal rights and liabilities. Includes an overview of related real estate and land development laws and regulations. Also designed to aid journeymen in preparing for State contractor's (law) license exam. Associate Degree Credit only and not Transferable.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Business (BUSE)****100 Introduction to Business****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment

Skill Levels R4 and W4; or Business 92 with a grade of "C" or better, or equivalent.

This introductory course for both business and non-business majors provides a broad understanding of the business community. Topics include business functions and terminology, occupational choices, and economic role. (FT) AA/AS; CSU; UC.

### 101 Business Mathematics

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

This course provides a comprehensive study of business mathematics and reviews basic mathematics, such as decimals, fractions, and percentages. Topics include bank services, payroll, the mathematics of buying and selling, interest and loans, taxes, insurance, depreciation, and other business computations. This course is intended for students majoring in business or others interested in a business setting such as managers, supervisors, and work team members. (FT) AA/AS; CSU.

### 119 Business Communications

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; or Business 92 with a grade of "C" or better, or equivalent.

This course introduces the principles of effective business communications. Topics include the development, analysis, organization, and composition of various types of written and oral business communications. Students develop clear, concise, and persuasive letters, memoranda, and reports. This course is intended for students majoring in business and for others working in a business environment. (FT) AA/AS; CSU.

### 140 Business Law and the Legal Environment

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; or Business 92 with a grade of "C" or better, or equivalent.

This course introduces students to the legal system, the laws that govern business in America, and the principles underlying fundamental legal concepts. Topics include judicial and administrative systems,

ethics, contracts, torts, bankruptcy, agency, business organizations, security regulations, regulation of property, and protection of intellectual property interest. This course is intended for students majoring in business and for others interested in business law. (FT) AA/AS; CSU; UC.

### 150 Human Relations in Business

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course introduces students to human behavior as it relates to business. Topics include leadership, communication, status, decision making, motivation, and personnel problems. This course is intended for students majoring in business and others interested in a business setting such as managers, supervisors, and work team members. (FT) AA/AS; CSU.

### 155 Managing the Small Business

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M30; Business 101 with a grade of "C" or better, or equivalent.

This course is a study of the elements involved in successfully operating a small business. Key issues include human resource management, marketing for small business, and legal issues. This course is intended for the student who plans to major in Business Studies or Business Management. This course is also intended for students from any discipline who are interested in owning or operating a small business. (FT) AA/AS; CSU.

### 201 Business Organization and Management

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; or Business 92 with a grade of "C" or better, or equivalent.

This course covers business organization and management fundamentals. Topics include business planning, leadership, productivity, managerial ethics,

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and corporate social responsibility. This course is intended for students majoring in business and for others interested in a business setting such as managers and supervisors. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Chemistry (CHEM)

### 100 Fundamentals of Chemistry 3 hours lecture, 3 units Letter Grade or Pass/No Pass Option

*Prerequisite:* Mathematics 46 with a grade of "C" or better, or equivalent, or Assessment Skill Level M40.

*Corequisite:* Completion of or concurrent enrollment in: Chemistry 100L with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for or concurrent enrollment in Chemistry 152 and 200.

This course is an introductory study of the language and tools of chemistry. Basic concepts of the structure, properties, interactions of matter and energy are studied, both qualitatively and quantitatively. Emphasis is placed on matter, chemical changes, chemical conversions, chemical bonding, and acid-base chemistry. This course is taken by students majoring in nursing, nutrition, or animal health technology and provides a foundation for further coursework in chemistry, in particular for introductory organic chemistry. (FT) AA/AS; CSU; UC Transfer Limitation: Chemistry (CHEM) 100, 100L and 152, 152L combined: maximum credit, four units. No credit for 100, 100L or 152, 152L if taken after CHEM 200. Engineering Technology (ENGN) 110, Chemistry (CHEM) 100, and Physics (PHYS) 100 combined: maximum credit, one course.

### 100L Fundamentals of Chemistry Laboratory 3 hours lab, 1 unit Letter Grade or Pass/No Pass Option

*Corequisite:* Chemistry 100.

*Advisory:* English 48 and English 49 and Mathematics 46, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5 and M40.

This laboratory course is designed to illustrate the principles of inorganic and physical chemistry as presented in Chemistry 100 and to familiarize students with common laboratory equipment and data collection methods. Along with Chemistry 100, this course is taken by students majoring in nursing or allied health sciences and provides a foundation for further lab work in chemistry. (FT) AA/AS; CSU; UC Transfer Limitation: Chemistry (CHEM) 100, 100L and 152, 152L combined: maximum credit, four units. No credit will be given for 100, 100L or 152, 152L if taken after Chemistry 200.

### 111 Chemistry in Society 3 hours lecture, 3 units Grade Only

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Chemistry 111L with a grade of "C" or better, or equivalent.

This is an introductory chemistry course for non-science majors. The course emphasizes conceptual topics in chemistry and scientific thinking. Students learn to understand how society uses chemistry-based technologies and how to analyze current trends or news involving chemistry. Topics include a basic understanding of matter and energy, physical and chemical changes, the atom, nuclear chemistry, bonding, acids and bases, organic chemistry, and biochemistry. Current issues in environmental chemistry such as energy resources, air and water pollution are explored. Students discuss the effects and controversy surrounding the use of different forms of energy. In addition, current issues in organic and biochemistry are examined including trends in diets, certain medicines and drugs, and personal care items. Students planning on taking further courses in chemistry should take Chemistry 100 or Chemistry 152. (FT) AA/AS; CSU; UC.

### 111L Chemistry in Society Laboratory 3 hours lab, 1 unit Grade Only

*Corequisite:* Completion of or concurrent enrollment in: Chemistry 111 with a grade of "C" or better, or equivalent.



*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This laboratory course is intended for non-science majors. It is designed to illustrate the principles of chemistry presented in Chemistry 111 in order for the student to understand how chemistry is used in our society. Experiments explore not only basic concepts in chemistry such as matter, energy, and the atom, but also explore real world applications of chemistry. This includes performing experiments related to the chemistry of the environment, household products, and biochemistry. Students learn how to work safely within the laboratory. Students that need to take further chemistry courses should enroll in Chemistry 152L or Chemistry 100L. (FT) AA/AS; CSU; UC.

### 130 Introduction to Organic and Biological Chemistry

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 100 and 100L, or Chemistry 152 and 152L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 130L with a grade of "C" or better, or equivalent.

This is a one-semester course that introduces the basic physical, chemical and structural features of organic and biological compounds. Topics such as bonding, saturated and unsaturated hydrocarbons, the chemistry of organic functional groups, and the properties of important biological compounds such as carbohydrates, fats, and proteins are covered. The importance of these compounds in our daily lives is emphasized. This course is designed for nursing, nutrition, and allied health majors. (FT) AA/AS; CSU; UC Transfer Limitation: Chemistry (CHEM) 130, 130L and 231, 231L combined: maximum credit, one course (with lab).

### 130L Introduction to Organic and Biological Chemistry Laboratory

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 100 and 100L, or Chemistry 152 and 152L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 130 with a grade of "C" or better, or equivalent

This is a one-semester laboratory course that illustrates the principles presented in Chemistry 130. Students are introduced to common organic chemistry laboratory equipment, fundamental organic and biochemical reactions, tests and techniques. Techniques covered include chromatography, recrystallization, and distillation. Tests and reactions of common organic functional groups, carbohydrates, fats, and amino acids are covered. Synthesis of a medicinal compound such as aspirin or a nitrogen-based analgesic is also covered. This course is designed for nursing, nutrition, and allied health majors. (FT) AA/AS; CSU; UC Transfer Limitation: Chemistry (CHEM) 130, 130L and 231, 231L combined: maximum credit, one course (with lab).

### 152 Introduction to General Chemistry

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50.

*Corequisite:* Chemistry 152L.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Chemistry 151.

This is a one-semester preparatory course in chemistry consisting of an intensive study of some of the principles of inorganic and physical chemistry that are needed before taking Chemistry 200. Topics include but are not limited to atomic structure, chemical nomenclature, periodicity, chemical equations, stoichiometry, solutions, intermolecular forces, and gas laws. The course emphasizes problem solving and chemical calculations. It is intended for those students majoring in one of the natural sciences, engineering, or related curricula who do not meet the entrance requirements of Chemistry 200. (FT) AA/AS; CSU; UC Transfer Limitation: Chemistry (CHEM) 100, 100L and 152, 152L combined: maximum credit, four units. No credit for Chemistry (CHEM) 100, 100L or 152, 152L if taken after CHEM 200.

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## 152L Introduction to General Chemistry Laboratory

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50.

*Corequisite:* Completion of or concurrent enrollment in: Chemistry 152 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Chemistry 151L. Chemistry 152L is a one-semester laboratory course intended as the companion course for Chemistry 152. Topics include chemical measurement, significant figures, laboratory safety, laboratory techniques, chemical reactions and stoichiometry. An emphasis is placed on problem solving, data analysis and chemical calculations. It is intended for those students majoring in one of the natural sciences, engineering or related curricula who do not meet entrance requirements of Chemistry 200. (FT) AA/AS; CSU; UC Transfer Limitation: Chemistry (CHEM) 100, 100L and 152, 152L combined: maximum credit, four units. No credit for Chemistry (CHEM) 100, 100L or 152, 152L if taken after CHEM 200.

## 160 Introductory Biochemistry

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Chemistry 130 with a grade of "C" or better, or equivalent.

The basic principles of the chemistry of biochemical reactions and biochemical molecules are studied. This course is intended for majors in nutrition economics, nursing and allied health professions or academic majors in the chemical or life sciences. Topics include acid/base chemistry, thermodynamics, cell biology, amino acids and proteins, enzymes, lipids, membranes and transport, carbohydrates, metabolism, nucleic acids and information transfer. (FT) AA/AS; CSU.

## 161 Techniques in Biochemistry

**1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Prerequisite:* Chemistry 100L with a grade of "C" or better, or equivalent.

*Advisory:* Biology 205 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Biology 132.

This course is designed to provide students with both theoretical and applied knowledge of currently useful biochemical and biotechnical methods. Experiments provide experiences in mammalian tissue culture; protein and/or enzyme analyses; immunological analyses; computer-assisted applications and bioinformatics. This course is designed for students in the chemistry technician program or those seeking experiences necessary for employment in the biopharmaceutical industry. (FT) AA/AS; CSU.

## 200 General Chemistry I - Lecture

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 152 and 152L, each with a grade of "C" or better, or equivalent and Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 200L with a grade of "C" or better, or equivalent.

This is the first course in a two course sequence in general chemistry. Emphasis is placed on the principles and laws of inorganic chemistry, including quantitative, mathematical problem-solving. Topics include chemical equations, stoichiometry, atomic theory, and its relationship to periodicity of the elements, bonding theories, molecular geometry, solution chemistry, liquids, solids, and the gas laws. This course is intended for science majors and all students interested in chemistry. (FT) AA/AS; CSU; UC.

## 200L General Chemistry I - Laboratory

**6 hours lab, 2 units**

**Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in Chemistry 200 with a grade of "C" or better, or equivalent.

This is the first semester laboratory course in a two course sequence in general chemistry. Emphasis is placed on laboratory experiments that illustrate the fundamental principles and laws of chemical behavior and the properties of matter, including quantitative, mathematical problem-solving. Topics include techniques of data analysis, chemical formulas, equations, stoichiometry and maintenance of a laboratory notebook. This course is intended for science majors and all students interested in chemistry. (FT) AA/AS; CSU; UC.

**201 General Chemistry II - Lecture****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 200 and Chemistry 200L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 201L with a grade of "C" or better, or equivalent.

This course is the second course in a two course sequence in general chemistry and is intended for students majoring in science or satisfying prerequisites for professional schools. The course covers the principles of physical and inorganic chemistry with an emphasis on quantitative, mathematical problem solving. Topics in the course include chemical kinetics, chemical equilibrium, acid base theory, thermochemistry, thermodynamics, electrochemistry, coordination chemistry and nuclear chemistry. The course also includes an introduction to organic chemistry. (FT) AA/AS; CSU; UC.

**201L General Chemistry II - Laboratory****6 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in Chemistry 201 with a grade of "C" or better, or equivalent.

This is the second semester laboratory course of a two course sequence in general chemistry. It is intended for students majoring in science or satisfying prerequisites for professional schools. Emphasis is placed on the fundamental principles of physical and inorganic chemistry. Topics include techniques of data analysis, chemical kinetics, chemical equilibrium, acid, base, and salt, thermochemistry, electrochemistry, coordination chemistry. Wherever appropriate and whenever possible, computer skills are introduced and applied to data analysis, laboratory simulations, and computer interfacing with laboratory equipment. (FT) AA/AS; CSU; UC.

**231 Organic Chemistry I - Lecture****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 201 and Chemistry 201L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 231L with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and

W6 or English 105 with a grade of "C" or better, or equivalent.

This course is the first semester of a one-year course in Organic Chemistry. Major themes include, but are not limited to, bonding, molecular structure, isomerism, conformational analysis, nomenclature, reaction mechanisms, and synthesis. An emphasis is placed on the reactions of aliphatic compounds such as alkanes, cycloalkanes, alkenes, alkynes, alkyl halides, and alcohols. The organic chemistry literature, and spectral interpretation using techniques such as infrared and nuclear magnetic spectroscopies, are introduced to support the above topics. This course is designed for undergraduates pursuing a degree in the chemical sciences, training in chemical technology, and other transfer students who need organic chemistry as part of the formal preparation for their major; for example, molecular biology, premedical, pre dental, and pharmacy. (FT) AA/AS; CSU; UC Transfer Limitation: Chemistry (CHEM) 130, 130L and 231, 231L combined: maximum credit, one course (with lab).

**231L Organic Chemistry I - Laboratory****6 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 201 and Chemistry 201L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 231 with a grade of "C" or better, or equivalent.

*Advisory:* English 105 or English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels W6 and R6.

This is a laboratory course designed to illustrate the principles presented in Chemistry 231. The emphasis is on the determination of physical properties and the separation, purification and identification of organic compounds. The course acquaints students with the equipment, glassware, techniques and safe practices specific to the organic chemistry laboratory. Techniques such as measurement of physical constants, recrystallization, extraction, distillation and chromatography are used in the synthesis and/or characterization of selected classes of organic compounds. These classes include, but are not limited to, alkanes, alkenes, alkynes, alkyl halides, and alcohols. The organic chemistry literature and

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spectral interpretation using techniques such as infrared and nuclear spectroscopies, are introduced to support the above topics. This course is designed for undergraduates pursuing a degree in the chemical sciences, training in chemical technology, and those students who need organic chemistry as part of the formal preparation for their major; for example, molecular biology, premedical, pre dental, and pharmacy. (FT) AA/AS; CSU; UC Transfer Limitation: Chemistry (CHEM) 130, 130L and 231, 231L combined: maximum credit, one course (with Lab).

### 233 Organic Chemistry II - Lecture

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 231 and Chemistry 231L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 233L with a grade of "C" or better, or equivalent.

This course is the second semester of a one-year sequence in Organic Chemistry. The topics covered include, but are not limited to, molecular structure, molecular behavior, nomenclature, reaction mechanisms, and synthesis. An emphasis is placed on the reactions of selected classes of organic compounds, such as alcohols, ethers, aldehydes, ketones, carboxylic acids and their derivatives, amines, benzenoid and heterocyclic aromatics and their derivatives, carbohydrates, lipids, amino acids their bio-organic compounds. The study of these molecules provides a backdrop for exploring the factors that govern particular transformations within a synthetic sequence. The use of print and electronic media and the interpretation of spectroscopic information (such as infrared, nuclear magnetic resonance, and ultraviolet-visible spectroscopies, and mass spectrometry) for the analysis and differentiation of molecular structures is continued. This course is designed for students pursuing a baccalaureate degree in the chemical sciences or in majors such as premedical, pre dental or pharmacy; and for students training for careers in some chemical technology fields. (FT) AA/AS; CSU; UC.

### 233L Organic Chemistry II - Laboratory

**6 hours lab, 2 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 231 and Chemistry 231L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 233 with a grade of "C" or better, or equivalent.

This course is the second semester of a one-year sequence in Organic Chemistry Laboratory and is designed to illustrate the principles presented in Chemistry 233. The emphasis is on synthesis, purification and/or characterization of selected classes of organic compounds, including but not limited to aromatics, alcohols, aldehydes and ketones, carboxylic acids, amines, and simple examples of bio-organic molecules. Additional emphasis is placed on multi-step synthetic pathways and product identification using selected methods of qualitative organic analysis such as wet chemical and advanced spectroscopic techniques. Variation of scale from micro- to macro-quantities, and more advanced separation and analytical techniques, distinguish the level of this course from Organic Chemistry I Laboratory. This course is intended for students pursuing a baccalaureate degree in the chemical sciences or in majors such as premedical, pre dental or pharmacy; and for students training for careers in some chemical technology fields. (FT) AA/AS; CSU; UC.

### 251 Analytical Chemistry

**3 hours lecture, 6 hours lab, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 201 and Chemistry 201L and Mathematics 150, each with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This is a course in quantitative analysis. Major topics include theory and practice of gravimetric and volumetric methods of chemical analysis and introduction to instrumental methods of analysis with a focus on precision and accuracy of experimental data. The target audience for Chemistry 251 is students majoring in chemistry or biochemistry and others who need the course for career advancement. It is recommended that students who plan to enroll in this course do so the semester following completion of Chemistry 201. (FT) AA/AS; CSU; UC.

**255 Inside the Pharmaceutical Industry**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 152 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is designed for students who desire to learn how the pharmaceutical industry works. Specifically it is intended for those who want to understand the drug discovery, design and approval processes. The course covers principles pertinent to working in the pharmaceutical industry. Topics include but are not limited to good lab practice (GLP), good manufacturing practice (GMP), hazardous materials management, the Food and Drug Administration (FDA), drug approval, and drug design. The course concludes with an overview of companies in the local pharmaceutical industry, their technology and products. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Chicano Studies (CHIC)**

**110A Introduction to Chicano Studies**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introductory survey of the field of Chicano Studies and the factors that influence the Chicano culture. Emphasis is placed on the historical development of the Chicano people including their Mesoamerican roots, cultural identification, political activities, and their contemporary roles and influence in United States culture, society and economy. This course is designed for students majoring in Chicano Studies and/or Social Sciences and can be used for transfer General Education. (FT) AA/AS; CSU; UC.

**110B Introduction to Chicano Studies**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a continuation of Chicano Studies 110A. Emphasis is placed on the historical development of the Chicano people including their connections to the indigenous people of the Southwestern and Western United States, their historical and contemporary experiences as residents of border of territories and as transnational actors as well as their contemporary roles and influence in United States culture, society and economy. This course is designed for students majoring in Chicano Studies and/or Social Sciences. (FT) AA/AS; CSU; UC.

**130 Mexican Literature in Translation**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a survey of Mexican literature in translation. Students are introduced to authors of the novel, short story, poem, essay, and folklore within the context of Mexican history, politics and society. This course is designed for Chicano Studies majors and anyone interested in literature. (FT) AA/AS; CSU; UC.

**135 Chicana/o Literature**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5 .

This course is a survey of Chicano and Chicana culture which examines language, literature and oral expression in historical and thematic context. Emphasis is placed on understanding and interpreting the cultural, ethnic, social and political dynamics that inform and influence literary, theoretical, performance and visual texts as they articulate the Chicano/a perspective. This course is designed for Chicano Studies majors and anyone interested in literature. (FT) AA/AS; CSU; UC.

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### 138 Literature of La Raza in Latin America in Translation

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

A survey of the novels, short stories, poetry and major Latin American writers, from the end of the Colonial Period to the present. Emphasis will be given to major contemporary authors reflecting the universality of Mestizo (Raza) masterpieces. This course is for all students with an interest in the study of Latin American literature. (FT) AA/AS; CSU; UC.

### 141A United States History from a Chicano Perspective

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a survey of early American history from the Mexican/Chicano perspective. It covers the period of discovery to the period of Reconstruction with emphasis on the evolution, influence, and experience of the Chicano. It includes their contributions to the political, social, economic, and cultural development of the United States. This general education course would be of interest to students studying history, ethnic studies, or other social sciences. This course partially satisfies the American Institutions requirement for the associate degree and for transfer to CSU. (FT) AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150-151, Black Studies (BLAS) 140A-140B, and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

### 141B United States History from a Chicano Perspective

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

This is a survey course in American history that covers the period of transition of the southwest from its Spanish-Mexican roots to its American acquisition in 1848. The course traces 19th century developments, slavery in the former Mexican territories, Native Americans, immigration and repatriation and includes constitutional

development and government in California. This is a survey course recommended for those students who intend to transfer to a four-year college or university. The complete six-unit sequence, Chicano Studies 141A and 141B, satisfies the graduation and degree requirements in American Institutions and California State Government. (FT) AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150-151, Black Studies (BLAS) 140A-140B, and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

### 150 History of Mexico

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This is a survey of Mexican history from the earliest pre-Columbian times to the present. Special emphasis is given to major historical developments from the time of the Spanish Conquest to the Revolution of 1910. In this course special consideration is given to the economic, political, social, and cultural factors which have shaped modern Mexico. This course prepares students for careers dealing with Mexico and/or Mexican culture. This course satisfies an elective requirement for the Associate Degree in Chicano Studies. (FT) AA/AS; CSU; UC.

### 170 La Chicana

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is the study of the Chicana in American society in historical and sociological perspective. Emphasis is placed on Chicana feminist scholarship and cultural representations, border issues, resistance to patriarchy, and the search for power. This course is designed for all students interested in Chicana and Chicano studies. (FT) AA/AS; CSU; UC.

### 190 Chicano Images in Film

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a critical approach to cinematic images of Chicanos as depicted in selected films. Focus is placed on stereotypical and negative portrayals

during early cinema with an examination of the more realistic and complex portraits of more recent times. Film genres such as early Hollywood features, documentaries and the emerging “Chicano film” are examined. This course is designed for students interested in film studies with a special focus on the Chicano experience in film. (FT) AA/AS; CSU; UC.

**201 Pre-Columbian Cultures of MesoAmerica**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of “C” or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an examination of the archaeological, economic, social, political, cultural, and religious systems of MesoAmerica. This course satisfies an elective requirement for the Associate Degree in Chicano Studies. (FT) AA/AS; CSU; UC.

**210 Chicano Culture**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of “C” or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the Indo-Hispano roots of Chicano culture in the United States. Emphasis is placed on the historical development of Chicano popular culture and its expression through music, art, radio, television, newspapers, literature and festivities in urban and rural contexts. This course is designed for students majoring in Chicano Studies and/or Humanities. (FT) AA/AS; CSU; UC.

**230 Chicano Art**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of “C” or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a comprehensive overview of the major influences, themes and styles in Chicano art from its emergence in the 1960s to the beginning of the 21st century. The course addresses Chicano content in painting, murals, prints, sculpture, installation, performance and video. The historical, social and cultural context of the Chicano/a art movement is explored so that the students get an overview of the major forces that shape artistic creation within this field. This course is designed for all students interested in Chicano studies and

for art majors who want to explore a revolutionary contemporary art movement. (FT) AA/AS; CSU; UC.

**290 Independent Study**  
**Hours by Arrangement, 1-3 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

For students with advanced background in Chicano Studies who wish to study special problems or work on specialized projects. This course may be taken four times with different content for a maximum of six units. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

Class sections of the following courses utilize a variety of reading and/or research materials from a Chicano perspective. Refer to the class schedule under the particular subject listing for designated sections. See page 346 for complete English course descriptions and page 311 for complete Communications Studies course descriptions.

**English**

43 English Review  
 49 Basic Composition (no longer degree applicable)  
 101 Reading and Composition  
 105 Composition and Literature  
 205 Critical Thinking and Intermediate Composition

**Communications Studies**

103 Oral Communication

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

## Child Development (CHIL)

### 101 Human Growth and Development

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course examines the interrelationship among the physical, cognitive, and psychosocial growth and development of individuals from conception through adolescence. It emphasizes positive relationships with family members, peers, and other significant individuals. Topics include theories and philosophies of human development and cross-cultural patterns. Students observe children and educational programs. This course is a core requirement for the State of California Child Development Permit and the State of California Community Care Licensing, Title XXII. (FT) AA/AS; CSU; UC Transfer Limitation: Child Development (CHIL) 101 and 103 combined: maximum credit, one course.

### 111 Curriculum: Music/Motor Skills

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the development and significance of music and perceptual motor activities in child development from infancy through kindergarten. Emphasis is placed on basic teaching techniques and selecting suitable materials and equipment for various age and maturity levels among preschool children. This course is designed for students who have an interest in working with children ages 0 - 5 in settings such as preschools, daycares etc. (FT) AA/AS; CSU.

### 121 Creative Art

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course introduces the creative process and experience in early childhood education programs. Emphasis is placed on creative development, art curriculum activities, basic teaching skills, guidance

techniques, equipment, and materials. Students select appropriate activities for a variety of age and maturity levels based on child development theories and concepts. This course is intended for students majoring in Child Development or others interested in the creative process in early childhood education. (FT) AA/AS; CSU.

### 131 Curriculum: Language/Science

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Child Development 133 or 135.

This course is an introductory study of the function of language, math and science learning in early childhood educational programs. Emphasis is placed on the development of language and science curriculum activities, basic teaching skills, guidance techniques, equipment and materials. Students select appropriate activities for a variety of age groups and maturity levels based on child development theories and concepts. This course is designed for Child Development majors and may be used to partially fulfill requirements for Title 22 licensing and child development permits. (FT) AA/AS; CSU.

### 141 The Child, Family and Community

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the dynamics of human development and socialization in a culturally pluralistic society. Emphasis is placed on the influences of contemporary family living and cultural patterns on the child, school-family relationships, and community resources and services that support and strengthen families. This course is a core requirement for California Child Development teacher/director center permits as well as for the State of California Department of Community Care Title XXII licensing childcare centers requirements. This course is designed for all students interested in child development and multi-cultural and behavioral studies. (FT) AA/AS; CSU.



**151 Program Planning****3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Child Development 101; and either Child Development 111 or 121 or 131, each with a grade of "C" or better, or equivalent.

*Corequisite:* Child Development 270 or 275.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course focuses on planning the preschool learning environment to promote optimal development. It emphasizes curriculum planning, guidance, safety, record keeping, observation techniques, resource units, and daily plans. The course partially fulfills State of California Permit requirements. (FT) AA/AS; CSU.

**152 School Age Program Planning****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5.

This course is a practical study of school age program planning. Emphasis is placed on the details of planning a school age child development center, curriculum development, staff training and child guidance, health and safety. This course is designed for students planning to work with school age children in community settings. This course is for child development majors and may be used to partially fulfill State of California Child Development Permit Requirements and Title 21 teaching requirements. (FT) AA/AS; CSU.

**160 Observing and Understanding Children****1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

*Limitation on Enrollment:* Health and Safety. TB clearance within the last year is required.

This course focuses on behavioral patterns and growth processes of young children through observations and supervised participation in the campus Child Development Center. The course emphasizes the principles of observing, interpreting, and guiding children's behavior. Topics include children's developmental, safety, and nutritional needs. The course fulfills the specialization requirements for the State of California Master

Teacher Permit when taken with Child Development 161 and 162 or Child Development 161 and 188. (FT) AA/AS; CSU.

**161 Observations and Issues in Child Development****1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skills Level R4 and W4.

*Limitation on Enrollment:* Health and Safety. TB clearance within the last year is required.

This course explores current issues in child development and how these issues influence both the child and family. The course emphasizes effective communication skills, positive guidance techniques, kindergarten readiness skills, and appropriate classroom activities. It includes supervised participation in the campus Child Development Center, and it fulfills the specialization requirements for the State of California Master Teacher Permit when taken with CHIL 160 and 162 or CHIL 160 and 188. (FT) AA/AS; CSU.

**165 Children With Special Needs****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a survey of education for children with special needs. Emphasis is placed on the types and characteristics of special needs as well as on the methods for integrating children with special needs into inclusive educational settings. Topics include the history of special education legislation, current educational compliance requirements and community resources available to parents, teachers and other professionals. This course is designed for professionals and parents who work with children with special needs. This course partially fulfills the specialization requirement for the State of California Master Teacher Permit. (FT) AA/AS; CSU.

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**UC** = University of California Applicable

**151 Program Planning****3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Child Development 101; and either Child Development 111 or 121 or 131, each with a grade of "C" or better, or equivalent.

*Corequisite:* Child Development 270 or 275.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course focuses on planning the preschool learning environment to promote optimal development. It emphasizes curriculum planning, guidance, safety, record keeping, observation techniques, resource units, and daily plans. The course partially fulfills State of California Permit requirements. (FT) AA/AS; CSU.

**152 School Age Program Planning****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Child Development 101 and Mathematics 210A and Mathematics 210B and Music 110 and Physical Education 47, each with a grade of "C" or better, or equivalent.

This course is a practical study of school age program planning. Emphasis is placed on the details of planning a school age child development center, curriculum development, staff training and child guidance, health and safety. This course is designed for students planning to work with school age children in community settings. This course may be used to partially fulfill State of California Child Development Permit Requirements and Title 21 teaching requirements. (FT) AA/AS; CSU.

**160 Observing and Understanding Children****1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

*Limitation on Enrollment:* Health and Safety. TB clearance within the last year is required.

This course focuses on behavioral patterns and growth processes of young children through observations and supervised participation in the campus Child Development Center. The course emphasizes the principles of observing, interpreting, and guiding children's behavior. Topics include children's developmental, safety, and nutritional

needs. The course fulfills the specialization requirements for the State of California Master Teacher Permit when taken with Child Development 161 and 162 or Child Development 161 and 188. (FT) AA/AS; CSU.

**161 Observations and Issues in Child Development****1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skills Level R4 and W4.

*Limitation on Enrollment:* Health and Safety. TB clearance within the last year is required.

This course explores current issues in child development and how these issues influence both the child and family. The course emphasizes effective communication skills, positive guidance techniques, kindergarten readiness skills, and appropriate classroom activities. It includes supervised participation in the campus Child Development Center, and it fulfills the specialization requirements for the State of California Master Teacher Permit when taken with CHIL 160 and 162 or CHIL 160 and 188. (FT) AA/AS; CSU.

**165 Children With Special Needs****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a survey of education for children with special needs. Emphasis is placed on the types and characteristics of special needs as well as on the methods for integrating children with special needs into inclusive educational settings. Topics include the history of special education legislation, current educational compliance requirements and community resources available to parents, teachers and other professionals. This course is designed for professionals and parents who work with children with special needs. This course partially fulfills the specialization requirement for the State of California Master Teacher Permit. (FT) AA/AS; CSU.

**166 Special Needs Curriculum****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an in-depth study of curriculum for children with special needs. Emphasis is placed on the concept of full inclusion of children with special needs into school/community settings and on related educational strategies and adaptive equipment. This course is designed for parents, teachers, nurses, social workers, and paraprofessionals employed in schools, day care centers, and child development programs. This course partially meets the specialization requirements for the Master Teacher Permit. (FT) AA/AS; CSU.

**175 Infant-Toddler Growth and Development**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course examines typical and atypical physical, social, emotional, and intellectual growth of the infant and toddler. The selection and maintenance of appropriate play materials and equipment for indoor and outdoor environments is discussed. Appropriate observations and visitations to the community are required. This course meets State of California Title 22 licensing regulations for teachers in infant toddler settings, and is beneficial for parents. This course fulfills the specialization requirement for State of California Master Teacher Permit when taken in addition to Child Development 176. (FT) AA/AS; CSU.

**176 Principles of Infant/Toddler Caregiving**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5.

This course is a study of the principles of infant/toddler care, including all aspects of infant and toddler development. Students learn to plan appropriate indoor and outdoor curriculum and environments. Topics include health, nutrition and safety for the very young as well as licensing regulations, staff interactions, parent participation and program development. This course is for child development majors and partially fulfills master teacher permit specializations. (FT) AA/AS; CSU.

**180 Nutrition, Health and Safety for Children**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

This course provides students and child development professionals with a survey of the nutritional, health, and safety needs of children from infant/toddlers through preschool age. Topics may include, but are not limited to, the planning and execution of environments and activities that promote safety, balanced diet, and overall health for children. Students also learn the fundamentals of pediatric first aid and cardiopulmonary resuscitation (CPR). This course also meets the Title XXII, fifteen hour, Health and Safety Training requirement, including signs and symptoms of child abuse. (FT) AA/AS; CSU.

**188 Violence in the Lives of Children and Families**

**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course examines the causes and effects of violence in the lives of children and families. Emphasis is placed on the skills needed for conflict resolution and on the environmental set-ups and curricula that promote peaceful, cooperative and nonviolent play and interactions. Information about the history, current legislation, reporting responsibilities, and identification of abuse is also given. This course is designed for parents, teachers, nurses, and other child care professionals to learn strategies for understanding and responding to the various forms of stress and violence that affect children today. (FT) AA/AS; CSU.

**202 Administration of Early Childhood Programs**

**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Child Development 101 and 141, each with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a

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grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Child Development 111 and 121 or 131, with a grade of "C" or better, or equivalent.

This course is an overview of early childhood education program administration. Topics include theoretical perspectives on early childhood education, licensing regulations, funding sources, budgetary considerations, personnel management, curriculum development, and teacher selection. The course meets State of California Title 22 licensing regulations for site supervisors. It also partially fulfills State of California matrix requirements for Program Director and Site Supervisor Permits. This course is designed for anyone seeking a position as a site supervisor or center director. (FT) AA/AS; CSU.

### 210 Supervision of Early Childhood Programs

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Child Development 141 and 151, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Child Development 201 or 201B.

This course examines early childhood supervisory techniques with emphasis on educational philosophy, professional growth, in-service staff training, program and staff evaluation, models of parent education and involvement, and supportive services. It partially fulfills the State of California Child Development Permit Matrix requirement for supervisors and directors and also meets the State of California Title 22 licensing regulations for directors. This course is designed for students who intend to go into supervisory positions in early childhood education. It also introduces students to the tools that help them organize and evaluate quality children's programs. (FT) AA/AS; CSU.

### 215 Adult Supervision and Mentoring in Early Childhood Settings

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Child Development 151 with a grade of "C" or better, or equivalent.

This course emphasizes the methods and principles of supervising adults in early childhood settings. Students study effective models for guidance and evaluation of adults, positive communication skills, and the role of the mentor in a teaching environment. It is designed for students who

supervise other adults in the preschool classroom while simultaneously providing an appropriate setting for young children. This is a required course for the levels of Master Teacher, Site Supervisor and Program Director for the Child Development Permit issued by the Commission on Teacher Credentialing. Associate Degree Credit only and not Transferable.

### 270 Work Experience

**Hours by Arrangement (One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work.), 1-4 units  
Grade Only**

A program of on-the-job learning experiences for students employed in a job related to their major or their educational goals. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. AA/AS; CSU.

### 275 Supervised Field Study

**3-9 hours lab, 1-3 units  
Grade Only**

*Corequisite:* Child Development 151.

*Advisory:* Child Development 160 with a grade of "C" or better, or equivalent.

This directed field study course provides students with an opportunity to apply classroom information in a practical setting with supervision from faculty as well as field-site supervisors. Intended for students who plan to teach or supervise in early childhood settings, this course partially fulfills the State of California requirement for experience. (FT) AA/AS; CSU.

### 280 Environmental Rating Scale

**1 hour lecture, 1 unit  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 & W4.

This course provides students with an introduction to the Environmental Rating Scale administration, scoring system, profile, and improvement plan. The course focuses on environmental evaluation and program improvement. Students learn how to evaluate the quality of child care programs and how to increase the quality of care through practical improvements. This course is intended for child development professionals currently working in the field as well as those seeking professional development, child development permits, employment opportunities, or anyone with general interest in working with children. (FT) AA/AS; CSU.

**290 Independent Study****Hours by Arrangement, 1-3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Investigation of a special area in the field of Child Development. This course may be taken four times with different content for a maximum of six units. (FT) AA/AS; CSU.

**291A Child Development Center Practicum****3 hours lab, 1 unit  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

This course provides directed laboratory experience in the campus Child Development Center. It is designed for students who plan careers in early childhood and family support programs and for parents who seek practical experience in guiding and teaching children. Students become familiar with the operating policies and procedures of a preschool program and observe and access the development of children. This course may be used toward the experience component for the State of California Child Development Permit. (FT) AA/AS; CSU.

**291B Child Development Center Practicum****3 hours lab, 1 unit  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

This course provides directed laboratory experience in the campus Child Development Center. It is designed for students who plan careers in early childhood education and family support programs and for parents who seek practical experience in guiding and teaching children. Students examine appropriate safety, health, and nutritional practices in a preschool setting with an emphasis on implementation with young children. This course may be used toward the experience component for the State of California Child Development Permit and toward the Health and Safety training requirements for Title 22. (FT) AA/AS; CSU.

**291C Child Development Center Practicum****3 hours lab, 1 unit  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

This course provides directed laboratory experience in the campus Child Development Center for students who plan careers in early childhood and family support programs and for parents who seek practical experience in guiding and teaching children. Students explore teaching practices that enhance children's learning in the classroom and assist in the planning and implementation of developmentally appropriate activities. This course may be used toward the experience component for the State of California Child Development Permit. (FT) AA/AS; CSU.

**291D Child Development Center Practicum****3 hours lab, 1 unit  
Grade Only**

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

This course provides directed laboratory experience in the campus Child Development Center for students who plan careers in early childhood and family support programs and for parents who seek practical experience in guiding and teaching children. Students examine the role of routines and transitional activities in the organization and structure of an early child development setting. The class emphasizes positive guidance and discipline for young children. This course may be used toward the field experience component for the State of California Child Development Permit. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

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## Chinese (CHIN)

### 101 First Course in Mandarin Chinese

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 43 with a grade of "C" or better, or equivalent or Assessment Skill Level W4.

This interactive, entry-level course introduces students to the Mandarin Chinese language and to Chinese culture. Emphasis is placed on the basic phonetic system, characters, grammar and common daily expressions. Topics also include Chinese culture, geography and history. This course is intended for students interested in an introduction to Mandarin Chinese language. (FT) AA/AS; CSU; UC  
Transfer Limitation: Corresponds to two years of high school study.

### 102 Second Course in Mandarin Chinese

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chinese 101 with a grade of "C" or better, or equivalent or two years of high school Chinese.

This interactive, elementary course in Mandarin Chinese builds upon the listening, reading, speaking and writing skills introduced in the entry-level course. Emphasis is placed on phonetics, characters, grammar, tone usage and common daily expressions. This course is intended for students who have completed the first course in the Chinese language sequence and want to continue their second-semester Chinese course, students who want to further their basic proficiency in the Chinese language, and students who want to continue learning Chinese for their personal enrichment. (FT) AA/AS; CSU; UC.

### 201 Third Course in Mandarin Chinese

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chinese 102 with a grade of "C" or better, or equivalent, or three years of high school Chinese.

This intermediate-level study of Mandarin Chinese is the third course in the Chinese language sequence. Students use increasingly complex Mandarin language structures and vocabulary to listen, speak, read and write at the intermediate level. This course is intended for students who have completed the second course in the Chinese language sequence and who are planning on majoring in Chinese or

are interested in learning Chinese for their personal enrichment. (FT) AA/AS; CSU; UC.

### 202 Fourth Course in Mandarin Chinese

**5 hours lecture, 5 units**

**Grade Only**

*Prerequisite:* Chinese 201 with a grade of "C" or better, or equivalent.

This intermediate-advanced level study of Mandarin Chinese is the fourth course in the Chinese language sequence. Students use increasingly complex Mandarin language structures and vocabulary to listen, speak, read and write at the intermediate-advanced level. This course is intended for students who have completed the third course in the Chinese language sequence and who are planning on majoring in Chinese or are interested in learning Chinese for their personal enrichment. (FT) AA/AS; CSU; UC.

### 210 Conversation and Composition in Chinese I

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chinese 102 with a grade of "C" or better, or equivalent.

This is an interactive course in Chinese conversation and composition at the intermediate level. In this course, students are encouraged to express themselves creatively both orally and in writing as they explore a variety of topics in Chinese. This course is intended for students who have completed the first two courses in the Chinese language sequence. (FT) AA/AS; CSU; UC.

### 211 Conversation and Composition in Chinese II

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chinese 210 with a grade of "C" or better, or equivalent.

This is an interactive course in Mandarin Chinese conversation and composition at the intermediate-advanced level. In this course, students are encouraged to express themselves creatively both orally and in writing as they explore a variety of topics in Chinese at an intermediate-advanced level. This course is intended for students who have completed the first course in the Chinese language conversation and composition sequence. (FT) AA/AS; CSU; UC.

**This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.**

## Communication Studies (COMS)

### 101 Voice and Articulation

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 101.

This course is designed to improve vocal production and the articulation, enunciation, and pronunciation of words. Emphasis is placed on sound production, voice quality, volume, pitch and expressiveness.

This course is intended for communications studies majors and anyone involved in theatre, sales, public services or other professions. (FT) AA/AS; CSU; UC.

### 103 Oral Communication

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 103.

This course is an introduction to speechmaking. Emphasis is placed on the skills required to organize and deliver a variety of types of speeches. Students give several speeches with and without visual aids. This course is designed for Communication Studies majors and for anyone interested in honing their speech skills. (FT) AA/AS; CSU; UC.

### 104 Advanced Public Communication

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Communication Studies 103 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 104.

This course covers theory, practice and critical analysis of public communication, including speeches on subjects of current interest both local and global. It includes an introduction to the relationship between rhetorical theory and criticism and rhetorical practice in public communication. Special emphasis is placed on advanced platform speaking and limited preparation speaking. This course is designed for students majoring in communication studies and students interested in advancing fundamental speech skills. (FT) AA/AS; CSU; UC.

### 111 Oral Interpretation

**3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 111.

This course is a practical study of the art of oral interpretation. Emphasis is placed on developing a foundation for critical analyses of literature in order to enhance spoken interpretation of prose, poetry, dramatic monologue and duo. This course is designed for communication studies and drama majors as well as anyone interested in improving their oratory skills. (FT) AA/AS; CSU.

### 117A Intercollegiate Forensics

**3-9 hours lab, 1-3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communication 117A.

This course is for students participating in their first semester of intercollegiate forensics (speech and debate) competition. Emphasis is placed on the preparation of platform speeches (informative, persuasive and after-dinner) at the novice intercollegiate level. Students taking the course for one unit participate in one event at one tournament;

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**UC** = University of California Applicable

for two units, two events at two tournaments; for three units three events at three tournaments. (FT) AA/AS; CSU.

### 117B Intercollegiate Forensics

**3-9 hours lab, 1-3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Communication Studies 117A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 117B.

This course is for students participating in their second semester of intercollegiate forensics (speech and debate) competition. Emphasis is placed on the preparation of oral interpretation events (poetry, prose, dramatic interpretation, dramatic-duo, informative, persuasive, after-dinner, program of oral interpretation, impromptu and extemporaneous speeches) at the novice to junior intercollegiate level. Students taking the course for one unit participate in one event at one tournament; for two units, two events at two tournaments; for three units three events at three tournaments. (FT) AA/AS; CSU.

### 117C Intercollegiate Forensics

**3-9 hours lab, 1-3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Communication Studies 117B with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 117C.

This course is for students participating in their third semester of intercollegiate forensics (speech and debate) competition. Emphasis is placed on limited preparation speech events (impromptu and extemporaneous) and debate at the intermediate to advanced level. Students taking the course for one unit participate in one event at one tournament; for two units, two events at two tournaments; for three units, three events at three tournaments. (FT) AA/AS; CSU.

### 117D Intercollegiate Forensics

**3-9 hours lab, 1-3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Communication Studies 117C with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 117D.

This course is for students participating in their fourth semester of intercollegiate forensics (speech and debate) competition. Emphasis is placed on the preparation of five (pentathlon) speech events, debate and team leadership at the advanced level. Students taking the course for one unit participate in one event at one tournament; for two units, two events at two tournaments; for three units, three events at three tournaments. (FT) AA/AS; CSU.

### 135 Interpersonal Communication

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 135.

This course is a study of effective interpersonal skill development and practice in oral and written communication. Emphasis is placed on the personal, situational, and cultural influences of interaction. Topics include human perception, interpersonal dynamics, listening, conflict management, and verbal and non verbal symbol systems. The course is intended for students who communicate in one-on-one situations, including communication, fashion, allied health, public service and business majors. This course is also intended for students who are interested in further development of effective interpersonal skills in work, volunteer, and personal environments. (FT) AA/AS; CSU; UC.

### 160 Argumentation

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Communication Studies 103 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 160.

This course is a study of argumentation. Emphasis is placed on research, analysis of propositions, testing of evidence, construction of the brief, and preparation for presentation of constructive and refutation cases. This course is designed for communications studies majors and anyone interested in argumentation and debate. (FT) AA/AS; CSU; UC.



**170 Small Group Communication****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5 and Communication Studies 103 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 170.

This course is a study of the concepts and theories related to group formation and development, and basic group communication dynamics. Students lead and participate in various forms of group discussion. This course is designed for communication studies and business majors as well as for anyone interested in working effectively in small group settings. (FT) AA/AS; CSU; UC.

**180 Intercultural Communication****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 180.

This course is a study of communication between members of differing cultures. Emphasis is placed on the culture and communication, including social psychological variables, verbal and nonverbal language systems, cross-cultural communication breakdowns and conflict resolution. Students apply the principles of intercultural communication to contemporary cross-cultural and global communication issues. This course is designed for students majoring in communication studies, international business, business, education, social sciences, nursing, mass communications, and all fields of study that require cross-cultural contact and/or awareness of cultural distinctions. (FT) AA/AS; CSU; UC.

**290 Independent Study****Hours by Arrangement, 1-3 units****Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Advanced special work in debate, radio interpretation, public address. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

*This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.*

**Computer Aided Design/Drafting**

(See Architecture, page 272)

**Computer Business Technology (CBTE)**

*Note: CBTE course numbers differ from the OFCE course numbers.*

**95 Keyboarding/Typing Speed Development****3 hours lab, 1 unit****Pass/No Pass Only**

*Advisory:* Computer Business Technology 101 with a grade of "C" or better, or equivalent.

This course helps students build speed and accuracy in keyboarding/typing skills. Topics include typing speed, accuracy, and techniques. Students perform short intense typing drills and timed writings. This course may be taken four times for credit. Students develop increased typing speed and accuracy with each course repetition. (FT) Associate Degree Credit only and not Transferable.

**101 Keyboarding for Computers****.75 hour lecture, .75 hour lab, 1 unit****Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Office Information Systems 101, 102, or 164.

This course introduces students to basic keyboarding skills and document processing activities. Topics include keyboarding and basic word processing. Students practice keying by touch using word processing software. (FT) AA/AS; CSU.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

**102 Keyboarding****1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with credit for Office Information Systems 101, 102, or 164 or Computer Business Technology 101 or 103.

This course teaches touch control of the keyboard and proper typing techniques. Students build speed and accuracy through specialized drills and practice on straight copy and numbers. Students apply keyboarding skills to the formatting of letters, reports, tables, and memos using word processing software. This course, or sections of this course, may be offered through distance education (FT) AA/AS; CSU.

**103 Beginning Computer Keyboarding****2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with credit for Office Information Systems 100 or 265 (Beginning Computer Keyboarding - WordPerfect) or Computer Business Technology 101 or 102.

This course is designed for all students whose keyboarding skill is for vocational and/or personal use. Beginning Computer Keyboarding teaches basic keyboarding skills by touch using a computer and word processing software. Students receive basic formatting instructions for letters, tables, and reports. This course, or sections of this course, may be offered through distance education. (FT) AA/AS; CSU.

**114 Introduction to Microsoft Windows****.75 hours lecture, .75 hours lab, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 101 and 103, each with a grade of "C" or better, or equivalent.

This basic course presents an overview of the features of the Microsoft Windows operating system and the components of managing files and folders in the Windows environment. In this hands-on course,

students learn to use and customize the start menu; work with Windows accessory programs; open data files; manage disks, folders and files; create shortcuts; and customize the desktop. (FT) AA/AS; CSU.

**120 Beginning Microsoft Word****1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 101 and 103, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Computer Business Technology 120A or 120B.

This course introduces students to the text editing features in Microsoft Word. Topics include insert, delete, find and replace, move and copy, headers and footers, pagination, character and document formatting, spell check, tables, and mail merge basics. (FT) AA/AS; CSU.

**122 Intermediate Microsoft Word****2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 101, 103, and 120, each with a grade of "C" or better, or equivalent.

This course introduces students to intermediate-level text editing features in Microsoft Word. Topics include envelopes and labels, mail merge, sorting, styles, templates, wizards, macros, document notations, tables of contents and indexes, online forms, columns, drawing tools, and Web page basics. (FT) AA/AS; CSU.

**126 Document Processing****2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 103 with a grade of "C" or better, or equivalent.

This course is designed to give students hands-on experience creating a variety of computer-based documents. This course covers the use of computer software to create business, technical, medical and/or legal documents and to create forms, presentation documents, and documents for electronic

publishing. It may include independent projects. This course, or sections of this course, may be offered through distance education. (FT) AA/AS; CSU.

### 127 Introduction to PowerPoint

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Computer Business Technology 114 with a grade of "C" or better, or equivalent.

This course provides students with the basic knowledge of how to create, modify, and present PowerPoint slide shows. Students apply and modify both text and graphics. They use current software to integrate other programs with PowerPoint. AA/AS; CSU.

### 128 Comprehensive Presentations with PowerPoint

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W5; Computer Business Technology 101 or 102 or 103 and 114 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Computer Business Technology 126.

This course is a hands-on study of the skills required to plan, develop, and deliver PowerPoint presentations on a computer and on the Web. Emphasis is placed on adding and modifying text, graphics, sound, video, and effects, such as transitions and custom slide animations. Topics also include adding, modifying and creating templates. Students learn to add, import and format data for tables and charts, to customize presentations, add interactivity, and integrate PowerPoint with other applications. This course is intended for all students and professionals who wish to acquire skills in digital presentations. This course may be repeated three times to update skills in using new versions. (FT) AA/AS; CSU.

### 140 Microsoft Excel

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business

Technology 101, 103, and 114, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Computer Business Technology 140A.

This course covers the fundamentals of Microsoft Excel and is intended for students without any prior experience with this program. Topics include creating and formatting worksheets and charts, managing a workbook, and using productivity features to enter functions and analyze data. (FT) AA/AS; CSU.

### 140A Introduction to Microsoft Excel

**.75 hour lecture, .75 hour lab, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 103 and 111, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for Computer Business Technology 140.

This course is designed for students interested in learning basic Excel skills. Students receive hands-on practice in how to plan, define, create, and modify worksheets. This course, or sections of this course, may be offered through distance education. (FT) AA/AS; CSU.

### 151 Introduction to Microsoft Access

**.75 hour lecture, .75 hour lab, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 103 and 111, each with a grade of "C" or better, or equivalent.

This course covers basic Access skills. Students receive hands-on practice in creating, modifying, and sorting database tables, performing queries, creating reports, and designing forms. This course, or sections of this course, may be offered through distance education. (FT) AA/AS; CSU.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

**153 Database Development with Access**  
**2.5 hours lecture, 1.5 hours lab, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 101 and 114, each with a grade of "C" or better, or equivalent.

This course is designed for individuals seeking to develop skills in a relational database management system on a personal computer. Topics include designing relational databases; creating tables, queries, forms and reports; entering data; finding and modifying records; importing from and exporting to other programs and to HTML pages; using field properties; understanding the use of Server Query Language (SQL) in Access; creating and running macros for automating tasks; and planning and designing user interfaces. This course, or sections of this course, may be offered through distance education. (FT) AA/AS; CSU.

**160A Introduction to Online Learning**  
**.5 hour lecture, .5 hour lab, .5 unit**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 101 with a grade of "C" or better or equivalent.

This course is an introduction to developing the skills necessary to succeed in an online or web-based course. Students will learn and apply the basics of the Windows environment, data organization and management, the Internet, the World Wide Web, e-mail, and word processing software. This course or sections of this course may be offered through distance education. (FT) AA/AS; CSU.

**161 Learning the Internet**  
**.75 hours lecture, .75 hours lab, 1 unit**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5; Computer Business Technology 103 and 114, each with a grade of "C" or better, or equivalent.

This course introduces students to the Internet. Students receive hands-on practice using a web browser to navigate the World Wide Web and link to Internet resources. Topics include creating and sending e-mail, FTP and file downloading, locating newsgroups and other discussion tools,

and conducting business on the Internet. This course is intended for students majoring in a variety of applied computer fields. This course may be repeated three times to update skills as browser technologies change. (FT) AA/AS; CSU.

**162 Web Page Creation**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5; Computer Business Technology 114 and 161, each with a grade of "C" or better, or equivalent.

This course provides a hands-on approach to planning, designing, and creating Web pages for an Intranet or World Wide Web site. Students learn to use HTML, wizards and templates to create Web pages with hypertext links and video, graphics, and audio enhancements. This course is intended for students majoring in a variety of applied computing fields. This course may be repeated three times to update skills as web page technologies change. (FT) AA/AS; CSU.

**164 Introduction to Microsoft Outlook**  
**.75 hours lecture, .75 hour lab, 1 unit**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 101 with a grade of "C" or better, or equivalent.

This course is an introduction to the features of Microsoft Outlook. Students will learn how to message, schedule appointments, organize and manage tasks and contacts lists and customize Outlook. This course or sections of this course may be offered through distance education. (FT) AA/AS; CSU.

**165 Webpage Creation with Dreamweaver**  
**2.5 hours lecture, 1.5 hours lab, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Computer Business Technology 101, 114 and 161, each with a grade of "C" or better, or equivalent.

This course is a hands-on study of webpage creation. Students use a HyperText Markup Language (HTML) editor to create Extensible HyperText Markup Language (XHTML) and Cascading Style Sheets (CSS).

Web development skills include adding behaviors, using templates and library items, and embedding hypertext links, video, graphic, and multimedia files. This course is designed for students studying web design and professionals updating their skills. This course may be repeated three times to update skills as CSS and Web technologies change. (FT) AA/AS; CSU.

### 170 Desktop Publishing

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5; Computer Business Technology 101 and 114, each with a grade of "C" or better, or equivalent.

Students in this course learn the features of desktop publishing software by designing and creating professional quality publications for business and home. Topics include text and table frames, WordArt, images, graphic accents, and Web page functions. This course is intended for office support staff, administrative assistants, small business owners, and others who require a basic knowledge of desktop publishing. This course may be repeated three times to update skills as desktop publishing technologies change. (FT) AA/AS; CSU.

### 173 Introduction to E-Commerce

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 101 or 102 and 162, each with a grade of "C" or better, or equivalent.

This is an introduction to current and emerging e-commerce technologies. Topics include Internet technology for business advantage; managing e-commerce funds transfer; reinventing the future of business through e-commerce; business opportunities in e-commerce; e-commerce web site design; social, political, and ethical issues associated with e-commerce; and business plans for technology ventures. Students are involved in creating an e-commerce marketing plan as well as a web site based on that plan. This course is intended for students seeking knowledge and experience in the realities of and potential for e-commerce. (FT) AA/AS; CSU.

### 175 Desktop Publishing Essentials

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Computer Business Technology 101 and Multimedia 127 and Art-Fine Art 150B, each with a grade of "C" or better, or equivalent.

This course provides students with the skills to create documents that are pre-press and pre-web ready. Students edit texts and graphics to design page layouts, create proposals, newsletters, fliers, brochures, PDF documents, web content and presentations. This course is designed for anyone interested in desktop publishing. This course may be repeated three times to update skills as desktop publishing software and technologies change. (FT) AA/AS; CSU.

### 176 Advanced Desktop Publishing and Typography

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Advisory:* Computer Business Technology 175, Multimedia 121 and 122, each with a grade of "C" or better, or equivalent.

This course provides students with advanced skills that are necessary to create documents that are pre-press and pre-web ready. Students create sophisticated and effective documents by combining text, images, charts, and tables and by applying typography and design principles to their layouts. Advanced topics include managing long documents, advanced typesetting functions, managing output to print, and creating HyperText Markup Language (HTML) and Extensible Markup Language (XML) documents. This course is designed for anyone interested in advanced desktop publishing. This course may be repeated three times to update skills as desktop publishing software and technologies change. (FT) AA/AS; CSU.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

### 177 Acrobat Portable Document Format File Creation

**1 hour lecture, 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 114 with a grade of "C" or better, or equivalent.

This hands-on course offers instruction in the creation of Acrobat Portable Document Format (PDF) documents, the standard file format for portable print and Internet documents. Students develop skills in creating PDF documents, embedding multimedia, adding interactive navigation, and creating forms. This course is designed for students studying Web design and anyone interested in PDF document creation. This course may be repeated three times to update skills as technologies change. (FT) AA/AS; CSU.

### 180 Microsoft Office

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5; Computer Business Technology 101, 114 and 161, each with a grade of "C" or better, or equivalent.

This course covers the Microsoft Office Professional suite, which is an integrated collection of software applications (word processing, spreadsheet, database, and presentations) that share data and work in a similar and consistent manner. This course includes instruction on how to seamlessly integrate data within and between the programs in an efficient manner. This course is intended for students interested in learning a business software suite. This course may be repeated three times to update skills as Microsoft Office Professional Suite technologies change. (FT) AA/AS; CSU.

### 190 Introduction To Quicken

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Computer Business Technology 103 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for Office Information Systems 153A.

This course is designed to prepare students for employment in a home-based office or small business office. This course provides hands-on

practice with Quicken, a program for organizing and managing financial information and performing on-line banking and bill payments in small businesses and home-based offices. This course or sections of this course may be offered through distance education. (FT) AA/AS; CSU.

### 198A Project Lab I

**1.5 hours lab, .5 unit  
Pass/No Pass Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

Students in this course design and complete hands on individualized projects applicable to CBTE courses to upgrade their software skills. (FT) AA/AS; CSU.

### 200 Office Telecommunications

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5.

This course provides students with a fundamental working knowledge of voice, data, and video telecommunications that can be applied in their business and personal lives. The course introduces telecommunications networks, transmitting, receiving, and satellite technologies. Topics include basic communication theory, fundamentals of telephone systems, and components of data communications systems. This course is intended for students interested in the selection or use of office telecommunications systems. (FT) AA/AS; CSU.

### 205 Records Management

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Computer Business Technology 101 with a grade of "C" or better, or equivalent.

This course is designed to prepare students for employment in the field of Records and Information Management (RIM). The course covers the fundamentals of Records Management including the principles of indexing and filing; the major filing systems-alphabetical, numerical, subject, and geographic; the role of the records management and the records manager in the information industry; selection of systems, equipment, and supplies; design, control, and maintenance of a records center;

and provides experience in using the computer to manage records. (FT) AA/AS; CSU.

**206 Electronic Records Management**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Computer Business Technology 151 and 205 or 180, each with a grade of "C" or better, or equivalent.

This course is an introduction to electronic records management. Emphasis is placed on the use of electronic media to create and store documents. This course is designed for students pursuing a career in records management and for those interested in managing electronic files. (FT) AA/AS; CSU.

**207 Advanced RIM Applications**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Computer Business Technology 205 and 206, each with a grade of "C" or better, or equivalent.

This course involves students in hands-on applications essential for creating a records management program. Records Information Management (RIM) projects include creating an industry specific file plan, vital records protection plan, disaster recovery program, and the automation of records systems. This course is intended for students who are looking for employment or an associate degree in RIM. (FT) AA/AS; CSU.

**210 Computers in Business**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with credit for Office Informations Systems 192.

This course is designed to prepare students for a computer related career. Computers in Business is an introductory course which covers the latest developments in computer technology, office automation, electronic communication, and the World Wide Web. This course or sections of this course may be offered through distance education. (FT) AA/AS; CSU.

**211 Office Administration**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Computer Business Technology 101, 102, 103 or 120, each with a grade of "C" or better, or equivalent. Type by touch or knowledge of Microsoft Word.

This course is designed to introduce the practical application of current office administration procedures, duties, and human relations. Specific topics include telephone and reception, transcription, mail procedures, data entry (10-key by touch), reference resources, job seeking, human relations, ethical behavior, office etiquette and dress, time management, communication systems, and oral and computer presentations. This course is recommended for the CBTE major to be a "capstone" course and is suggested to be taken at the end of their coursework. (FT) AA/AS; CSU.

**270 Work Experience**  
**Hours by Arrangement (One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work.), 1-4 units**  
**Grade Only**

A program of on-the-job learning experiences for students employed in a job related to their major or their educational goals. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

## Computer and Information Sciences (CISC)

### 133 Wide Area Networking

**1.5 hours, 1.5 units**

**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with credit for Computer and Information Sciences 265: WAN.

This class will introduce the students to Wide Area Networks and the associated standards and protocols. The topics will include service providers, IEEE & CCITT Standards, network topologies, network protocols, hardware/software installation/diagnostics, network management, and local area to wide area network implementations. (FT) AA/AS; CSU.

### 150 Introduction to Computer and Information Sciences

**3 hours lecture, 3 units  
Grade Only**

This course is a survey of computers, computer systems and information sciences. Emphasis is placed on the use of computers in business and technical fields. Topics include computer equipment and programming systems, systems study, design, development and implementation. This course is intended for all students interested in computers and how to use them. (FT) AA/AS; CSU.

### 151 UNIX Operating Systems

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with credit for Computer and Information Sciences 265: Introduction to Unix Operating System. This introductory course to the Unix Operating systems is for new users to learn the programs and services that made the Unix System so popular including: the shell, communicating to other users, manipulating files using the file structure, setting file access permissions, full-screen text editing, the Bourne and C shell, and programming simple shell scripts. (FT) AA/AS; CSU.

### 152 Introduction to the Linux Operating System

**3 hours lecture, 3 hours lab, 4 units  
Pass/No Pass Only**

*Limitation on Enrollment:* This course is not open to students with credit for Computer and Information Sciences 151.

This introductory course to the Linux Operating systems is for new users to learn the programs and services that made the Linux System so increasingly popular, including: the shell, communicating to other users, manipulating files using the file structure, setting file access permissions, full-screen text editing, and programming simple shell scripts. The Novell SuSE Linux implementation is used in the course, but other versions of Linux are also appropriate. (FT) AA/AS; CSU.

### 181 Principles of Information Systems

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introduction to basic principles and theory relating to problem solving and analysis in business organizations using computers and software packages. Emphasis is placed on computer organization, data processing systems, decision support systems, and systems analysis. Business software is reviewed with an emphasis on spreadsheet systems including hands-on spreadsheet applications. This course is intended for the transfer student planning to major in business, economics, or social science. Students who have completed CISC 182 should consult with a counselor before enrolling in CISC 181. (FT) AA/AS; CSU; UC.

### 182 Fluency with Information Technology

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

This course provides transfer students with an introduction to computer technology. It targets students who need to complete a computer literacy course as part of their degree or certificate program. Computer software, networking, and systems are covered, with an emphasis on modern technologies. This course also serves community members interested in an introduction to computer technology. Students who have completed CISC 181 should consult with a counselor before enrolling in CISC 182. (FT) AA/AS; CSU; UC.



**186 Visual Basic Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level W5. This course is an introduction to programming using Visual Basic. The course covers the fundamentals of event oriented programming in a Windows environment. Students learn to use and program a mouse, windows, forms, menus, dialog boxes, icons, buttons, text fields, files, graphics, and other components of a Windows environment in Visual Basic. (FT) AA/AS; CSU; UC.

**187 Data Structures and Object-Oriented**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

This course introduces students to the topic of data structures and object-oriented software engineering. It covers basic data structures such as collections and linked structures (e.g. stacks, queues, lists, arrays, trees, and hashes) from the perspective of object-oriented implementation. It discusses issues of object-oriented analysis, design, and implementation in popular programming languages such as C++, C#, and Java. (FT) AA/AS; CSU; UC.

**190 Java Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level W5. This course is an introduction to programming using Java. The course covers the fundamentals of object oriented programming utilizing the Java programming language for general purpose business programs and interactive World Wide Web based Internet programs. (FT) AA/AS; CSU; UC.

**192 C/C++ Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level W5; and Computer and Information Sciences 186 with a grade of "C" or better, or equivalent. This course presents basic programming concepts using the C++ programming language. The organization of standard I/O classes is emphasized. Structured and object oriented programming techniques are presented and used to design and implement a variety of programming problems. (FT) AA/AS; CSU; UC.

**193 Microsoft C# Software Engineering 1**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

This course applies industry-standard software engineering principles to the study of the object-oriented, general purpose programming language Microsoft C#, a member of the Microsoft Visual Studio.NET software development toolset. Coverage includes the typical topics of an introductory programming course. Extensive hands-on training is included in the laboratory sessions. This course can be offered in-class or online. This course is designed for students pursuing a degree in Computer Science or Information Systems and for vocational/professional students who are updating their programming skills set. (FT) AA/AS; CSU; UC.

**210 System Analysis and Design**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is an introductory, experiential study of the phases of the object-oriented software development life cycle (OOSDLC), including: stakeholder and requirements analysis; use cases development; software architecture; project management; user interface considerations; interactive and prototyping methodology; component construction; quality assurance; and configuration management. This course is intended for students seeking advanced knowledge and applications in Computer and Information Sciences. (FT) AA/AS; CSU; UC.

**220 Fundamentals of Computer Game Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* Computer and Information Sciences 187, 190, 192 or 193 with a grade of "C" or better, or equivalent. This course introduces software programmers to the design and development of simple graphical computer-based games. The course may use Java or C# as the programming language of choice. Emphasis is placed on developing games in a team environment, designing logical games that satisfy

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player needs, and on ensuring that games are of high quality through use of software engineering best practices and proper testing. This course is for students with some previous software programming experience. (FT) AA/AS; CSU; UC.

### 290 Independent Study

Hours by Arrangement, 1-3 units  
Grade Only

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Typically for advanced students in Computer and Information Sciences who wish to pursue special problems and projects related to the area. The student will meet with the instructor at specific intervals and will be expected to accomplish primary research, problem analysis and report preparation relating to an approved project or course of study. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

### Construction Management

(See Architecture, page 272)

## Consumer Studies (CONF)

### 110 Personal Financial Management

3 hours lecture, 3 units  
Grade Only

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5, and M20.

This course explores theories and techniques of managing personal income, with an emphasis on financial goal setting, culminating in the development of a personal financial plan. It includes practical methods of gaining maximum advantages from income through efficient spending, effective use of credit, savings, budgeting, insurance, and investment. Stock portfolios and retirement planning are discussed. This is a required course for

a Certificate of Completion in Skills for Success and Certificate of Achievement and/or Associate Degree in Consumer Resource Management. (FT) AA/AS; CSU.

### 140 Textiles

3 hours lecture, 3 units  
Grade Only

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course includes core information, analysis and testing of natural and man-made fibers, yarn and textile construction, fabric finishing and design. Challenges in identification, selection, use and care of textiles is covered. This course is intended for students majoring in Fashion Merchandising or Design or Interior Design, as well as for those who desire to be better consumers of textile products. (FT) AA/AS; CSU.

### 290 Independent Study

Hours by Arrangement, 1-3 units  
Grade Only

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Designed to deal with current problems and topics of special interest in home economics. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Culinary Arts/Culinary Management (CACM)

### Formerly Food Service Occupations (FOOD)

**Note:** CACM course numbers differ from the former FOOD course numbers.

### 101 Sanitation, Safety and Equipment

3 hours lecture, 3 units  
Grade Only

*Advisory:* English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment

Skill Levels R4 and W4; and completion of or concurrent enrollment in Culinary Arts/Culinary Management 105 (formerly Food Service 105), Culinary Arts/Culinary Management 110 (formerly Food Service 110), and Hospitality 101, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service 107. This course provides safety and sanitation principles and practices for personal and institutional application. Methods and techniques for handling foods safely are examined including food preparation, storage, service and the prevention of food contamination. Also covered are the importance of microorganisms, food borne illness and food allergies, sanitary facilities and equipment, accident prevention, crisis management, and pest management. Compliance with city, state, and federal health regulation as embodied in HACCP (Hazard Analysis Critical Control Point) are emphasized, along with the supervisor's responsibilities in maintaining high standards of these principles. The student receives a San Diego County food handler card and a certificate of completion from the Educational Foundation of the National Restaurant Association upon the successful completion of this course. This course is required for all Culinary Arts/Culinary Management students and is to be taken as the first course prior to all other culinary courses or in conjunction with the first few. It may be used for American Culinary recertification, and is required for the Dietary Service Supervisor Certificate offered by the Nutrition Department. (FT) AA/AS; CSU.

### 105 Fundamentals of Food Production Theory

**3 hours lecture, 3 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Culinary Arts/Culinary Management 101 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: Hospitality 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service Occupations 105.

This course provides basic terminology and methods of food production and an understanding of the physical, chemical, and biological characteristics of food. The variety of basic and specially prepared foods served in hotels, restaurants and other types

of food service establishments are introduced, and hierarchy of culinary positions is also presented. Food grades and standards of quality for finished products are presented. This is a beginning course for students with an interest in culinary arts/culinary management. (FT) AA/AS; CSU.

### 110 Fundamentals of Cooking & Service

**12.00 hours lab, 4.0 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Culinary Arts/Culinary Management 105 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: Hospitality 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service Occupations 110.

This is a beginning laboratory course in food preparation and presentation including cooking equipment, techniques, and safety procedures, using weights and measures, and interpretation of recipes. Product identification, basic cooking techniques and procedures based on nutrition and classic preparation methods are presented. Students are provided the hands-on experience in preparing meals by following recipe structure and using and modifying recipes based on knowledge gained through the course. Food preparation is produced in a time-restricted setting to prepare for functioning in a commercial kitchen. This course is designed for students interested in pursuing a career in Culinary Arts/Culinary Management. (FT) AA/AS; CSU.

### 115 Principles of Commercial Cooking

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5, and M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Culinary Arts/Culinary Management 110 or 111.

This course is a practical, hands-on study of basic commercial cooking techniques. Emphasis is placed kitchen and restaurant operations, including safety and sanitation. Students prepare meals in a

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commercial kitchen setting. This course is designed for students majoring in hotel management or dietary services, and anyone interested in basic commercial kitchen operations. (FT) AA/AS; CSU.

**120 Menu Analysis & Event Catering**  
**3 hours lecture, 3 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service Occupations 120.

This course covers the key aspects of menu planning essential to building a menu or complete concept and operation of a foodservice facility. The principles of planning a menu are presented, from concept development and design mechanics to menu pricing and marketing issues. Each menu element is analyzed as it applies to foodservice operations, balanced presentation, and profitability. Various types foodservices are presented for hotels, restaurants, foodservice facilities, and catering situations. This course is designed for students interested in pursuing a career in Culinary Arts/Culinary Management. (FT) AA/AS; CSU.

**130 Quantity Food Preparation-Theory**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 101 (formerly Food Service 107) with a grade of "C" or better, or equivalent. Food handler's permit may be accepted per instructor permission in lieu of Culinary Arts/Culinary Management 101.

*Advisory:* English 42 and English 43 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4 and M20; and concurrent enrollment in Culinary Arts/Culinary Management 131 (formerly Food Service 131); and completion of or concurrent enrollment in, Culinary Arts/Culinary Management 105 (formerly Food Service 105), Culinary Arts/Culinary Management 110 (formerly Food Service 110), and Hospitality 101, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service 130. This intermediate course sets forth the principles of preparing and serving food in volume with focus on entrees, breakfast foods, salads, sandwiches, short orders, and desserts. Emphasis is placed on recipe standardization, determination of need and procurement of supplies, organization of work stations, effective use of equipment and time, and attractive service. This course is for students pursuing

a career in Culinary Arts/Culinary Management, and is also required for the Dietary Service Supervisor Certificate offered through the Nutrition Department. (FT) AA/AS; CSU.

**131 Quantity Food Preparation Laboratory**  
**12 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 105 and Culinary Arts/Culinary Management 110, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in: Culinary Arts/Culinary Management 130 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service Occupations 131.

This laboratory course supplements the Culinary Arts/Culinary Management 130 theory course. Large scale food preparation is produced in a time-restricted quality-minded setting. Emphasis is placed on the development, organization and carrying out of recipe standardization, need and procurement of supplies, work stations, and attractive service. This intermediate course is for students interested in a career in Culinary Arts/Culinary Management and is required for the Dietary Service Supervisor Certificate offered through the Nutrition Department. (FT) AA/AS; CSU.

**140 Food and Beverage Purchasing and Control**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service Occupations 140.

This course covers techniques for purchasing food, beverages, and supplies used in hotels and restaurants. Students learn to analyze the operation, promotion, sales cost, and inventory controls on food and beverages. Students gain realistic experience by writing foodservice specifications, based on general purchasing methods, requirements, procedures, as well as the importance of controlling portions, inventories and costs and their affect on menu pricing. This course is designed for students interested in a career in hospitality and culinary arts/culinary management, and those working toward certification with the American Culinary Federation. (FT) AA/AS; CSU.

## 201 Gourmet Food Preparation Laboratory

**9 hours lab, 3 units  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 130 and Culinary Arts/Culinary Management 131, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service Occupations 201.

This laboratory course is designed to teach advanced food preparation techniques and methods. Students learn the science of scratch cookery through small batch assignments. Areas of focus include gourmet items, buffet specialties, hors d'oeuvres, and canapés, while practicing presentation and garnishing. Small scale preparation is produced in a time-restricted quality-minded setting. This course is for students pursuing a career in culinary arts/culinary management. (FT) AA/AS; CSU.

## 205 Garde Manger Cold Food Production

**9 hours lab, 3 units  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 130 and Culinary Arts/Culinary Management 131, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service Occupations 205.

This laboratory course builds on skills previously learned while the student studies traditional upscale pantry preparation. Topics covered include hors d'oeuvres, canapés, pates, terrines and charcuterie. Artistic displays including buffet tables, centerpieces, culinary showpieces are presented. The student gains practical experience preparing and serving theme buffets for guests. Small and large-scale preparation is produced in a time-restricted quality-minded setting. This course is for students pursuing a career in culinary arts/culinary management. (FT) AA/AS; CSU.

## 210 Basic Baking and Pastry

**9 hours lab, 3 units  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 130 and Culinary Arts/Culinary Management 131, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service Occupations 210.

This course covers fundamental baking skills for students who intend to specialize in baking

and pastry making instead of general cooking. Production of yeast and quick breads, cakes, cookies, pies, and pastries, as well as decorating and icings are undertaken, with emphasis placed on more sophisticated items and gourmet specialties including cakes and pastries for weddings, birthdays and special occasions. Gourmet baked items and pastries are produced in a time restricted quality minded setting. This course is for students pursuing a certificate or degree in culinary arts/culinary management. (FT) AA/AS; CSU.

## 211 Advanced Baking and Pastry

**9 hours lab, 3 units  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 210 with a grade of "C" or better, or equivalent.

This course builds on the skills and knowledge gained in baking and pastry and familiarizes the student with advanced baking theories and techniques. Students are introduced to a variety of essential ingredients necessary to the professional pastry chef, as well as current trends in equipment. The techniques of sugar cooking and the handling of chocolate are also discussed. Special importance is placed on the following methods: folding, rolling, piping, and decorating of dessert plates. Emphasis is on the safe handling of foods and the production of high quality, handcrafted desserts for retail and commercial bakeries. This course is designed for students interested advanced baking and pastry techniques in culinary arts/culinary management. (FT) AA/AS; CSU.

## 270 Work Experience

**Hours by Arrangement (One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work.), 1-4 units  
Grade Only**

A program of on-the-job learning experiences for students employed in a job related to their major or their educational goals. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. AA/AS; CSU.

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**291 Culinary Practicum****3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 110 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Enrollment in an approved related course.

*Limitation on Enrollment:* Must obtain an Add Code from the instructor for enrollment.

This course provides practical experiences designed to supplement the basic curriculum and includes special cooperative educational opportunities set up with the College and approved Chefs.

Experiences include special and short-order food preparation and service, buffet service, catering, dining room management and service and receiving and storeroom procedures. Large scale and small quantity preparation is produced in a time-restricted quality-minded setting. This course is for students pursuing a career in culinary arts/culinary management. (FT) AA/AS; CSU.

**291A Culinary Practicum Small Events****3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 110 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Enrollment in an approved related course.

*Limitation on Enrollment:* Must obtain an Add Code from the instructor for enrollment.

This course provides practical experiences designed to supplement the basic curriculum and includes special cooperative educational opportunities set up with the College and approved Chefs. Experiences include special and short-order food preparation and service, buffet service, catering, dining room management and service and receiving and storeroom procedures. Small event preparation is produced in a time-restricted quality-minded setting. This course is for students pursuing a career in culinary arts/culinary management. (FT) AA/AS; CSU.

**291B Culinary Practicum for Formal Events****3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 110 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Must obtain an Add Code from the instructor for enrollment.

*Limitation on Enrollment:* Enrollment in an approved related course.

This course provides practical experiences designed to supplement the basic curriculum and includes special cooperative educational opportunities set up with the College and approved Chefs. Experiences include special and short order food preparation and service, buffet service, catering, dining room management and service and receiving and storeroom procedures. Formal event preparation is produced in a time-restricted quality-minded setting. This course is for students pursuing a career in culinary arts/culinary management. (FT) AA/AS; CSU.

**291C Culinary Practicum for Informal Events****3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 110 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Must obtain an Add Code from the instructor for enrollment.

*Limitation on Enrollment:* Enrollment in an approved related course.

This course provides practical experiences designed to supplement the basic curriculum and includes special cooperative educational opportunities set up with the College and approved Chefs. Experiences include special and short-order food preparation and service, buffet service, catering, dining room management and service and receiving and storeroom procedures. Informal event quantity preparation is produced in a time-restricted quality-minded setting. This course is for students pursuing a career in culinary arts/culinary management. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Dance (DANC)**

*Dance courses may be used to fulfill the Physical Education graduation requirement. See page 96 in the Academic Requirements section of this catalog.*

**110 Ballet****2-3 hours lab, .5-1 unit****Letter Grade or Pass/No Pass Option**

Ballet is a course in traditional ballet technique focusing on correct body alignment and placement through repetition and centre work. The class analyzes, discusses, and critiques the line, design, ballet technique, choreography and dynamics of ballet movements. Ballet fulfills lower division requirements for Dance majors. This course, in combination with Physical Education 110, may be taken four times for credit. (FT) AA/AS; CSU; UC.

**111 Ethnic Dance Forms****1 hour lecture, 3 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introduction to multiple cultures and global dance traditions. Each tradition is examined in terms of its particular set of techniques, styles and rhythms. Special emphasis is placed on the exploration of movement characteristic of each cultural dance form. This course is not limited to dance majors and minors. Dance majors are encouraged to expose themselves to a variety of cultural dance forms. Course content, including country, culture and/or dance type, changes each semester. This course may be taken up to four times for credit. (FT) AA/AS; CSU; UC.

**115 Tap****2- 3 hours lab, .5 - 1 unit****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

Tap is an introductory course which explores a variety of tap dance styles. Emphasis is on the development of balance, ankle articulation, timing and clarity of sound in the performance of basic tap vocabulary. Rhythm studies include musical phrasing, dynamics, body placement, and improvisation. This course is designed for dance and theater majors as well as students interested in exercise and aerobic experience. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours a week the additional time is utilized in the practice and perfection of rhythmic and sound clarity. (FT) AA/AS; CSU; UC.

**120 American Street Dance****2-3 hours lab, .5 - 1 unit****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

American Street Dance is an introductory course in a variety of established and emerging dance forms including Hip Hop, Funk, Pop, Lock and Fly. Street dance movements, rhythms and styles are explored through dance combinations. This course may be taken four times for credit. (FT) AA/AS; CSU; UC.

**126 Belly Dance****2-3 hours lab, .5 - 1 unit****Letter Grade or Pass/No Pass Option**

Belly Dance is an introductory course in a variety of established and emerging belly dance forms. Emphasis is placed on techniques, styles, rhythms, use of various props and performance dynamics of American staged belly dance. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours a week the additional time is utilized in practice and perfection of rhythmical isolations and improvisations. This course is designed for students who wish to explore dance movements from other cultures. (FT) AA/AS; CSU.

**130 Dance Repertoire****2-3 hours lab, .5 - 1 unit****Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 135 or 140 or Physical Education 135 or 140 with a grade of "C" or better, or equivalent.

Dance Repertoire is designed to introduce the dancer to the choreography of renowned choreographers. This course provides the opportunity for students to learn and perform selected choreography in ballet, modern, jazz, tap and musical theater. This course, in combination with Physical Education 130, may be taken four times for credit. AA/AS; CSU; UC.

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**135 Jazz Dance****2-3 hours lab, .5 - 1 unit****Letter Grade or Pass/No Pass Option**

Jazz Dance is a course which explores a variety of jazz dance techniques focusing on the development of coordination, flexibility, balance, strength, correct body alignment and rhythmic perception. Dance combinations are performed to demonstrate technical ability at all skill levels. Jazz Dance fulfills lower division requirements for dance majors. This course, in combination with Physical Education 135, may be taken four times for credit. (FT) AA/AS; CSU; UC.

**140 Modern Dance****2-3 hours lab, .5 - 1 unit****Letter Grade or Pass/No Pass Option**

Modern Dance is a course that explores the fundamental concepts and techniques of modern dance including floor stretch, center work, locomotor sequences and dance combinations. The student demonstrates, defines and performs flexibility, coordination, rhythmic and dynamic perception, control and strength. The class critiques, discusses and analyzes line, design, technique, choreography and dynamic qualities through lectures, videotapes and concert critiques. Modern Dance fulfills lower division requirements for dance majors. This course, in combination with Physical Education 140, may be taken four times for credit. (FT) AA/AS; CSU; UC.

**145 Ballroom and Social Dance****2-3 hours lab, .5 - 1 unit****Letter Grade or Pass/No Pass Option**

*Advisory:* English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level W5.

Ballroom and Social Dance is an introductory course focusing on the fundamentals of partner dance and basic steps in a variety of social and ballroom dance genres. Emphasis is placed on partnering technique, frame, style, and steps. This course is designed for dance and theatre majors as well as students who wish to explore historical dance. This course may be taken four times for credit. Students must demonstrate proficiency in the performance of increasingly complex Latin rhythms, tango variations, swing styles and partnering with each repetition. When this course is offered for three hours a week the additional time is utilized in the practice and perfection of styling, postures, rhythms and variations. (FT) AA/AS; CSU; UC.

**150 Dance Making: Ballet****3 hours lab, 1 unit  
Grade Only**

*Advisory:* Dance 253 with a grade of "C" or better, or equivalent.

This course is a practical exploration of the processes and elements used in the art of dance making in the area of Ballet. Within a workshop format, students work under close faculty supervision to research the historical masterpieces of Ballet and reinterpret them in a contemporary light. Emphasis is placed on concept creation, use of story and movement, improvisation, dance patterns, revision and refinement to develop an original dance in a fixed, repeatable form. This course is designed for dance majors and all students interested in dance and choreography. This course may be repeated three times with new choreography. (FT) AA/AS; CSU; UC.

**151 Dance Making: Jazz****3 hours lab, 1 unit  
Grade Only**

*Advisory:* Dance 253 with a grade of "C" or better, or equivalent.

This course is a practical exploration of the processes and elements used in the art of dance making in the area of Jazz. Within a workshop format, students work under close faculty supervision to research Jazz, including its African roots, its place in American musical theatre, and the influence of Funk, Hip-Hop and Latin rhythms, in order to create an original piece. Emphasis is placed on concept creation, use of story and movement, improvisation, dance patterns, revision and refinement to develop an original dance in a fixed, repeatable form. This course is designed for dance majors and all students interested in dance and choreography. This course may be repeated three times with new choreography. (FT) AA/AS; CSU; UC.

**152 Dance Making: Modern****3 hours lab, 1 unit  
Grade Only**

*Advisory:* Dance 253 with a grade of "C" or better, or equivalent.

This course is a practical exploration of the processes and elements used in the art of dance making in the area of Modern dance. Within a workshop format students work under close faculty supervision to research the 20th century pioneers of Modern dance and 21st century trends to create an original, emotive Modern dance. Emphasis is placed on concept creation, use of story, emotion and



movement, improvisation, dance patterns, revision and refinement to develop an original dance in a fixed, repeatable form. This course is designed for dance majors and all students interested in dance and choreography. This course may be repeated three times with new choreography. (FT) AA/AS; CSU; UC.

### 153 Dance Making: Dance Theater

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Dance 253 with a grade of "C" or better, or equivalent.

This course is a practical exploration of the processes and elements used in the art of dance making in the area of Dance Theatre. Within a workshop format, students work under close faculty supervision to integrate multimedia, text, spoken word and/or film with dance to create an original piece of Dance Theatre. Emphasis is placed on concept creation, use of story and movement, improvisation, dance patterns, revision and refinement to develop an original dance in a fixed, repeatable form.

This course is designed for dance majors and all students interested in dance and choreography. This course may be repeated three times with new choreography. (FT) AA/AS; CSU; UC.

### 177 Dance Improvisation

**2-3 hours lab, .5 - 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* Physical Education 135 or 140 or Dance 135 or 140 with a grade of "C" or better, or equivalent.

This course is designed to give students the opportunity to learn beginning and intermediate improvisational dance skills through the use of space, time, dynamics, and motion of body parts. Emphasis is placed on performance ability and technique. The student is involved in a structured dance performance in various situations and progresses to spontaneous movement in group and individual works. This course fulfills lower division requirements for dance majors. This course, in combination with Physical Education 177, may be taken four times for credit. AA/AS; CSU; UC.

### 178 Advanced Contemporary Dance

**3 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* Physical Education 135 or Dance 135 with a grade of "C" or better, or equivalent.

This course focuses on the movement principles of American dance masters Jack Cole, Bob Fosse,

Luigi and Matt Mattox. Instruction includes student performance of various contemporary dance styles for videotaped analysis of technical proficiency. This course, in combination with Physical Education 178, may be taken four times for credit. (FT) AA/AS; CSU; UC.

### 179 Advanced Classical Dance

**3 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 110 with a grade of "C" or better, or equivalent.

This course focuses on correct advanced body alignment, coordination, flexibility and strength. The class compares, discusses and analyzes the movement principles of the Royal, French, Cecchetti and Russian methods. This course, in combination with Physical Education 179, may be taken four times for credit. (FT) AA/AS; CSU; UC.

### 181 Introduction to Dance

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with credit for Physical Education 260. Introduction to Dance is designed to give students the opportunity to appreciate the aesthetic foundations of dance as interpreted within Western traditions. The course covers basic techniques of Western dance traditions that foster an awareness of dance as therapy and fitness as well as art and dance in film, video, and live performance. Additionally, students are introduced to dance as the expression of social discourse distinct to historical periods within Western history. Finally, students study the techniques of selected canonical or well known dancers, choreographers and their craft. This course is introductory but prepares both potential performers and scholars with an interest in performance for intermediate studies in dance. (FT) AA/AS; CSU; UC.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

**183 Music for Dance****2 hours lecture, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Dance 253 or Physical Education 116 with a grade of "C" or better, or equivalent.

Music for Dance introduces the fundamentals of music through the study of terminology, notation, elements and form as they relate to movement. The course explores the interrelationship of music and dance and provides students the opportunity to compose and perform rhythmic and movement projects. This course fulfills lower division requirements for dance majors. (FT) AA/AS; CSU; UC.

**253 Choreography****1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Physical Education 135 or 140 or Dance 110, 135, or 140 with a grade of "C" or better, or equivalent

*Limitation on Enrollment:* This course is not open to students with credit for Physical Education 116. Choreography is a course that explores the theories and elements utilized in the creative process of dance composition. Emphasis is placed on student application of choreographic concepts through the development of movement compositions. This course fulfills lower division requirements for dance majors. (FT) AA/AS; CSU; UC.

**261 Dance Performance****6 hours lab, 2 units  
Grade Only**

*Advisory:* Physical Education 135 or 140 or Dance 110, 135, or 140 with a grade of "C" or better, or equivalent.

Dance Performance provides the opportunity for students to apply intermediate and advanced skills in ballet, jazz and modern dance in preparation for public performance. Emphasis is placed on student application of dance, staging, and performance techniques in a theatrical environment. This course fulfills lower division requirements for dance majors. This course, in combination with Physical Education 129, may be taken four times for credit. (FT) AA/AS; CSU; UC.

**271 Dance Production****3-6 hours lab, 1-2 units  
Letter Grade or Pass/No Pass Option**

Dance Production explores the technical and management aspects of producing a dance concert. Emphasis is placed on student application of design and construction of costumes, lighting design, makeup application, stage and house management, and publicity. This course fulfills lower division requirements for dance majors. This course, in combination with Physical Education 118, may be taken four times for credit. (FT) AA/AS; CSU.

**Additional Dance Classes**

(See Physical Education, page 416)

*This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.*

**Dental Assisting - RDA, CDA (IDENA)****102 Dental Communications****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* Special Admission - must be admitted to program. Designated alternates may also enroll in the course.

This is an introductory course to the Dental Assisting Program. Students completing the course are prepared for the beginning phase of the Dental Assisting Program. This course aids the student in an understanding of the dental profession by exploring its history from early times through present day practice and the educational requirements and responsibilities of each Dental Health Team. Ethical and legal aspects, methods of conflict resolution, risk management and standards of patient care are presented. Students develop oral, written, and non-verbal communication skills and an understanding of psychological needs of dental patients, employers, and co-workers. This course will also explore the

demands of a career in the dental health field as well as introducing and analyzing basic dental terminology. This is a prerequisite course for students enrolling in the Dental Assisting Program. (FT) AA/AS; CSU.

### 103 Preventive Dental Care

**1.5 hours lecture, 1.5 units  
Grade Only**

*Prerequisite:* Dental Assisting 102 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 103L.

*Corequisite:* Completion of or concurrent enrollment in: Dental Assisting 106 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 104. Special Admission - must be admitted to program.

This course is for students enrolled in the Dental Assisting Program. This course focuses on the principles and techniques necessary for preventing tooth decay, including the importance of nutrition, personal preventive oral hygiene, and education of the dental patient on preventive dental care. The goal and components of a preventive dentistry program are included. This course also includes the discussion of personal nutrition and nutritional counseling plus charting a diet diary. Identification of sources and the practice of using fluoridation as a preventive measure against tooth decay and the purpose of dental sealants are also presented. (FT) AA/AS; CSU.

### 103L Preventive Dental Care Lab

**1.5 hours lab, .5 unit  
Grade Only**

*Corequisite:* Dental Assisting 103.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 104. Special Admission - must be admitted to program.

This course is for students enrolled in the Dental Assisting Program. This laboratory course presents the practical application of preventive dental care, including an analysis of personal/patient nutrition and nutritional counseling. This lab course also focuses on the principles and techniques necessary for personal preventive oral hygiene. Patient education strategies for maintaining preventive oral hygiene and regular professional care are included.

The practice of using fluoridation and sealants as preventive measures against tooth decay is covered. (FT) AA/AS; CSU.

### 106 Basic Dental Science

**3.5 hours lecture, 3.5 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This is a basic science course covering anatomy and physiology of the human body. It exposes the Dental Assisting student to various dental science areas including tooth morphology, embryology, bones, nerves, and muscles of the head and neck. It also includes an introduction to dental office microbiology, infection control, chemical & waste management. Pharmacology, oral pathology, dental office emergency and first aid are included. Field trip is required to obtain CPR certification. (FT) AA/AS; CSU.

### 116 Dental Materials

**2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Dental Assisting 102 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 116L.

*Corequisite:* Completion of or concurrent enrollment in: Dental Assisting 106 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course covers historical development, chemical and physical properties, as well as the agencies responsible for the standards of dental materials. The preparation of dental materials and their effect on the oral environment are examined. The dental assisting student will learn the effects of proper and improper manipulation and the safe practice of handling dental materials. (FT) AA/AS; CSU.

### 116L Dental Materials - Lab

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Dental Assisting 116.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

This course affords the dental assisting student an opportunity to prepare and manipulate a variety of dental materials, including the safety issues of each dental material. The demonstrations and evaluations focus on the effects of proper and improper manipulation by the chairside assistant. (FT) AA/AS; CSU.

### 124 Basic Dental Assisting

**2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Dental Assisting 102 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 124L.

*Corequisite:* Completion of or concurrent enrollment in: Dental Assisting 106 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 122. Special Admission - must be admitted to program.

This basic dental assisting course presents the role of the restorative dental assistant. This course includes sterilization/disinfection principles, preparation/function of instruments, matrix systems and care/maintenance of dental equipment. Principles of team positioning as well as delivering dental care in four- and six-handed general dentistry, and moisture control methods are stressed. Patient relations and techniques of team interactions are introduced. This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS; CSU.

### 124L Basic Dental Assisting Lab

**6 hours lab, 2 units  
Grade Only**

*Corequisite:* Dental Assisting 124.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 122L. Special Admission - must be admitted to program.

This basic dental assisting laboratory course allows for the practical application of chairside dental assisting techniques in restorative dentistry. Students develop skills in manipulation and delivery of restorative materials. In addition, skills are developed in sterilization procedures and in the preparation of instruments. Care and maintenance of equipment used in restorative dentistry are stressed. Team positioning, four- and six-handed dentistry, and oral evacuation skills are developed as well as skills

in patient handling. This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS; CSU.

### 128 Dental Radiology I

**2.5 hours lecture, 2.5 units  
Grade Only**

*Prerequisite:* Dental Assisting 102 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 128L.

*Corequisite:* Completion of or concurrent enrollment in: Dental Assisting 106 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 127. Special Admission - must be admitted to program.

This is a lecture course designed to acquaint the dental assisting student with the history, ethics, infection control and principles of dental radiographic production, including exposure and processing radiographs manual and digital. Intraoral and extraoral techniques, dental anatomy, landmarks, and dental fundamentals pertaining to dental radiography are presented. Radiographic interpretation, intraoral and extraoral photography, and the management of pediatric patients and patients with special needs are included. This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS; CSU.

### 128L Dental Radiography Lab

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Dental Assisting 128.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 125 or 127L. Special Admission - must be admitted to program.

This is a laboratory course in which dental assisting student will demonstrate radiation protective techniques, the process of caring for darkroom equipment, preparing solutions, exposing, processing, mounting, and evaluating dental radiographs. Exposures are accomplished using dental film, digital imaging and photography on manikins (DXTTR) in preparation for exposures on real patients. The student will demonstrate their ability to detect bone loss and caries utilizing DXTTR's radiographs as well as produce a set of bitewing radiographs on a live patient. (FT) AA/AS; CSU.

### 132 Clinical Business Management 1.5 hours lecture, 1.5 units Grade Only

*Prerequisite:* Dental Assisting 124 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 132L.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 131. Special Admission - must be admitted to program.

This course presents a basic foundation for the administrative dental assistant in accounts receivable and payable for manual and computerized systems. Included is the role of the dental assistant in clinical record keeping, preparing treatment plans, telephone techniques, effective scheduling, and insurance processing. The topics of this course also include maintaining recall system, inventory control, and marketing systems. Employment skills necessary to obtain a position as an administrative dental assistant and cultivate skills necessary to remain employed are also covered in this course. (FT) AA/AS; CSU.

### 132L Clinical Business Management Lab 3 hours lab, 1 unit Grade Only

*Prerequisite:* Dental Assisting 124L with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 132.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 131. Special Admission - must be admitted to program.

This lab course presents a basic foundation for the administrative dental assistant in accounts receivable and payable when theories can be applied to a computerized system. Included is the role of the dental assistant in clinical record keeping, preparing treatment plans, telephone techniques, effective scheduling, insurance processing, and maintaining recall and inventory control systems. (FT) AA/AS; CSU.

### 136 Dental Radiography II 3 hours lab, 1 unit Grade Only

*Prerequisite:* Dental Assisting 128L with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 185C or 186B.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is the clinical level and covers techniques and skills of exposing full mouth series of dental radiographs as well as digital imaging, Panoramic and Cephalometric radiographs. The use of various radiographic positioning devices is included. The student has the opportunity to expose radiographs in a simulated private practice environment through a program of referral of patient by local dentists. Students obtain a California State Radiation Safety Certification of Completion upon satisfactory completion of course requirements. (FT) AA/AS; CSU.

### 162 Intermediate Dental Assisting 2.5 hours lecture, 2.5 units Grade Only

*Prerequisite:* Dental Assisting 116 and 124, each with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 162L.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 161.

This course is a practical study of Prosthodontic Dentistry, Periodontics and Oral and Maxillofacial surgery and Endodontics. This course also includes the role of the surgical assistant and the basics of dental implants. Emphasis is on the fixed and removable dental prosthesis, infection process of periodontal disease, knowledge and skills to complete provisional coverage, an types of dental instruments used in each procedure of the specialties covered in the course. This course is designed for students enrolled in the Dental Assisting program. (FT) AA/AS; CSU.

### 162L Intermediate Dental Assisting Laboratory 6 hours lab, 2 units Grade Only

*Prerequisite:* Dental Assisting 116L, 124L, and 186A, each with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 162.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 161L.

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This intermediate chairside assisting Laboratory presents the practical application of chairside assisting and laboratory techniques in the specialty areas of fixed and removable prosthodontics, oral and maxillofacial surgery, periodontic surgery and endodontic surgery. Laboratory practice includes developing skills in constructing provisional crowns and bridges for direct and indirect application, use and care of specialized instruments, and preparation of impression materials. Skill in surgical assisting are developed in all surgical procedures. This course is intended for the student enrolled in the Dental Assisting program. (FT) AA/AS; CSU.

### 182 Advanced Dental Assisting

**2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Dental Assisting 116 with a grade of "C" or better, or equivalent and Dental Assisting 124 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 182L.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 181.

This course presents discussion and examination of the California Dental Practice Act and National Certification as they apply to dental assistants. This course is also a practical study of orthodontics and pediatric dentistry. Theory and instruction for the California certification courses of Coronal Polish and placement of sealants are also be presented. This course is designed for students enrolled in the Dental Assisting Program. (FT) AA/AS; CSU.

### 182L Advanced Dental Assisting Lab

**6 hours lab, 2 units  
Grade Only**

*Prerequisite:* Dental Assisting 116L and 124L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 182.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 181L.

This course allows the student to perform procedures of the chairside dental assistant in the specialty areas of Orthodontia and Pediatric Dentistry. The dental assisting student develops skills that prepare them to take the California State Registered Dental Assistant (RDA) practical

examination. The preclinical includes intra-oral and facial measurements, placement of isolation dams, matrices, liners, bases, custom provisional coverage, and temporary restorations. The following are taught to clinical proficiency: Mouth mirror inspection, use of intra-oral camera, charting the findings, taking impressions for orthodontic study models, bite registration, coronal polish and sealant placement. (FT) AA/AS; CSU.

### 185C Directed Clinical Practice

**75 - hours other, 1 unit  
Grade Only**

*Prerequisite:* Dental Assisting 128L with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 136

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 185.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This directed clinical practice course is conducted in a private dental office or clinic. Dental Assisting students are assigned basic duties in dental radiography and apply techniques learned in Dental Assisting 128, 128L and 136. These techniques include exposing bitewing and full-mouth radiographs on a variety of dental patients. Processing, mounting, identifying, labeling and filing radiographs are also included. The supervision of the student is shared by the staff of the dental office and the faculty of the Dental Assisting Program. (FT) AA/AS; CSU.

### 186A Directed Clinical Practice

**75 - hours other, 1 unit  
Grade Only**

*Prerequisite:* Dental Assisting 102 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in: Dental Assisting 116L and 124L, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 185A.

This course is designed for students in the Dental Assisting program to gain experience in directed clinical practice (DCP) in a dental clinic. Basic dental assisting is the main focus of this course. Support procedures include: infection control, preparing treatment rooms and patients for treatment, and

assisting in restorative chairside procedures using four and six-handed dentistry. The dental assisting student will also have the opportunity to manipulate a variety of dental materials. The DCP is coordinated by a member of the college faculty. Supervision of the student is shared by the staff of the affiliating institution and faculty from the Dental Assisting Program. Students may not be paid for DCP. (FT) AA/AS; CSU.

### 186B Directed Clinical Practice

**225 - hours other, 3 units  
Grade Only**

*Prerequisite:* Dental Assisting 186A with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 136.

*Corequisite:* Completion of or concurrent enrollment in: Dental Assisting 132L, 162L and 182L, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 185B, 185C and 185D.

This course provides dental assisting students a comprehensive, supervised application of knowledge and skills in all aspects of chairside assisting and administrative procedures in dental offices or clinics. Focus is on the job-ready, safe, legal, ethical and effective application of registered dental assistant functions. Rotations to specialty clinics are required, and will include rotations in orthodontics, surgery and administrative assisting. This course requires a high level of professionalism. Directed clinical practice (DCP) is coordinated by a member of the Dental Assisting program faculty. Supervision of the student is shared by the staff of the dental office or clinic and a faculty member. This course includes 225 hours of dental radiography duties. Students may not be paid for DCP. (FT) AA/AS; CSU.

### 290 Independent Study

**Hours by Arrangement, 1-3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Provides for additional research, academic or clinical experiences for students with special interests. The course consists of individualized research problems, conferences with the instructor at prearranged intervals and a final written report on the work completed. This course may be taken four times with

different content for a maximum of six units. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Disability Support Programs and Services (DSPS)

*Courses listed under DSPS have been designed for students with disabilities. Additional classes are offered at City and Miramar campuses. See appropriate catalog.*

### Physically Disabled

(See "Adapted P.E. Classes" under Physical Education, page 420)

## All Disabled Students

### 20 Introduction to Accessible Computers

**1 hour lecture, 1 unit  
Pass/No Pass Only**

This course introduces students with disabilities to accessible computer programs and equipment. The course provides an overview of software and hardware resources that allow disabled students to compete in educational and business settings. This course may be taken three times for credit. Not applicable to the Associate Degree.

### 21 Accessible Computing Lab

**1.5 - 6 hours lab, .5 - 2 units  
Pass/No Pass**

*Limitation on Enrollment:* This course is not open to students with previous credit for Disability Support Programs and Services 76.

This course is for students who benefit from adaptive computer access. The course modules teach students how to use the necessary adaptive hardware or software needed to access the computer. Training

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in all modules is individualized. This course may be repeated three times with new hardware or software. (FT) Not applicable to the Associate Degree.

### **27 Career Planning for Students with Disabilities**

**2 hours lecture, 2 units  
Pass/No Pass**

This course is designed to assist students with disabilities in acquiring an understanding of the world of work. Emphasis is placed on developing and pursuing goals for employment and on identifying community, state and national assistance resources. Throughout the course, students evaluate their individual career goals, analyze their job skills, research the job market and construct an effective resume and cover letter for prospective employers. Course material also emphasizes preparing students to meet the psychological, social and cognitive demands of employment. (FT) Not applicable to the Associate Degree.

### **Learning Disabled**

#### **40 Individual Assessment and Educational Planning**

**.5 hours lecture, .5 unit  
Pass/No Pass Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Disabled Students Programs and Services 50.

This course teaches students about their individual learning aptitude as compared to measured academic achievement. Students use standardized achievement and aptitude assessment instruments in accordance with the California Community College Learning Disabilities Eligibility Model to create a learning profile related to community college academic demands. Other topics include individual cognitive processing strengths and weaknesses, compensatory learning strategies, study skills, and disability management. This course is intended for students who believe they may have a learning disability or those interested in exploring issues related to learning aptitudes. (FT) Not applicable to the Associate Degree.

#### **42 Basic Skills Applied Study Strategies**

**2 - 3 hours lab, .5 - 1 unit  
Pass/No Pass Only**

This course is intended primarily for students needing disability related specialized support in mainstream basic skills classes in addition to the

campus wide academic support services. The focus of this class is to provide study skill assistance for students enrolled in basic skill college classes. Initial emphasis is placed both on the application and generalization of study strategies as well as on assistive technology. Computer assisted instruction is utilized to supplement, review and rehearse basic skills learning. This course may be taken four times with different content for a maximum of four units. Credit for the course does not apply to the associate degree.

#### **48 Effective Sentence Writing and Grammar**

**2 hours lecture, 2 units  
Pass/No Pass Only**

This course is designed for students who have verified disabilities related to effective sentence writing skills. It is intended to prepare students for a more successful entry into the mainstream basic skills English curriculum. Multisensory learning strategies are emphasized that assist in the recognition of acceptable sentence structures and appropriate grammar. Sentence writing instruction progresses from very simple to more complex structures. Credit for the course does not apply to the associate degree.

#### **49 Writing Structured Paragraphs**

**2 hours lecture, 2 units  
Pass/No Pass Only**

This course is designed for students who demonstrate difficulty with written language. It is intended to prepare students who have a writing related disability to more successfully meet the minimum college requirements for multi-paragraph essay writing. This course is unique for the highly structured and sequential strategies applied to essay writing. Additionally, the course emphasizes the application of assistive computer technology for facilitating organizational pre-writing strategies, document checking, and written language fluency. Credit for the course does not apply to the associate degree.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***



## Dramatic Arts (DRAM)

### 70 Digital Video Production for the Dramatic Arts

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Dramatic Arts 119 with a grade of "C" or better, or equivalent.

*Advisory:* Dramatic Arts 112 with a grade of "C" or better, or equivalent.

This course is an introduction to digital video as it relates to the Drama. Emphasis is placed on the skills necessary to work in front of the camera and on the technical aspects of digital video production as it relates to the creation of a portfolio reel. This course is designed for Drama majors interested in creating a reel for employment purposes. (FT) Associate Degree Credit only and not Transferable.

### 71 Digital Video Production for the Dramatic Arts II

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Dramatic Arts 70 with a grade of "C" or better, or equivalent.

This course is project-based study of digital video as it relates to the Drama. Emphasis is placed on providing students with the tools and skills to create and edit a reel for self-marketing and on the use of digital video in the design process for the stage. This course is designed for Drama majors interested in creating a reel for employment purposes. (FT) Associate Degree Credit only and not Transferable.

### 100A Fundamentals of Performance and Production I

**12 hours lab, 4 units  
Grade Only**

*Corequisite:* Dramatic Arts 250.

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dramatic Arts 101. This hands-on course focuses on beginning acting skills, scenic design and construction techniques, and theatrical production. Students participate in all aspects of theatrical production through the Mesa College Theatre Company. This course is designed for first-year dramatic arts majors. (FT) AA/AS; CSU; UC.

### 100B Fundamentals of Performance and Production II

**12 hours lab, 4 units  
Grade Only**

*Corequisite:* Dramatic Arts 250.

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dramatic Arts 102. This hands-on course focuses on beginning acting skills, lighting design and the technical aspects of lighting for the stage and theatrical production. Students participate in all aspects of theatrical production through the Mesa College Theatre Company. This course is designed for first-year dramatic arts majors. (FT) AA/AS; CSU; UC.

### 103 Acting for Non-majors

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dramatic Arts 130. This course introduces students to improvisational acting. The first phase of the course treats acting as process-centered. The instructor leads the participants using a variety of exercises to imagine, enact and reflect upon human experiences. The second phase of the course emphasizes problem-solving skills in group improvisational work. The group improvises action and dialogue appropriate to the content it is exploring, using elements of drama to give form and meaning to the experience. This course is designed for students who are interested in studying acting. (FT) AA/AS; CSU.

### 105 Introduction to Dramatic Arts

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level W6 and R6.

This course is an introductory study of the art and literature of the theater. Emphasis is placed on the examination and evaluation of dramatic texts in terms of genre, historical context, aesthetics

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and reception. In addition, this course introduces students to the technical aspects of the theatrical industry including production and personnel through campus drama productions and field trips. This course is designed for students majoring in dramatic arts and anyone interested in theatre. (FT) AA/AS; CSU; UC.

**112 Introduction to Script Analysis**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is intended to introduce Dramatic Arts majors, and other interested students, to the fundamental techniques of script analysis. Focus is on the students' ability to interpret and describe concepts and ideas as related to historical and contemporary dramatic literature. The course emphasizes the development of the techniques of script analysis specific to use in acting, directing, design, and critical and social analysis. (FT) AA/AS; CSU; UC.

**119 Acting for Film and Television**  
**2 hours lecture, 3 hours lab, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5; and Dramatic Arts 132 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for Radio and Television 119 or 265; or Dramatic Arts 265: Acting for Film and Television.

This course introduces students to the skills required for on-camera performing techniques as used in the motion picture and television industry. Students participate in the selection, rehearsal, and on-camera performance of material from television and motion picture scripts including drama, sitcoms, soaps and commercials. Emphasis is placed on cold reading taped audition skills, improvisational and interview techniques, and the fundamental acting techniques required for camera, scene, and monologue studies. This course provides a comprehensive introduction to students intending to enter a career in the dramatic arts and radio/television. (FT) AA/AS; CSU.

**122 Makeup for the Stage**  
**1 hour lecture, 3 hours lab, 2 units**  
**Grade Only**

This course is an introductory hands-on study of the materials and techniques used in stage makeup design and application. Emphasis is placed on the acquisition of a lexicon pertinent to the history and use of makeup in the theater as well as on the actual application of stage makeup in the classroom and as a member of the makeup crew for a theatrical production. This course is intended for students majoring in drama, theatre, film, radio and television and cosmetology as well as anyone interested in makeup for the stage. This course may be taken four times for credit. Students must demonstrate increased proficiency and/or new skill attainment with each repetition. (FT) AA/AS; CSU; UC.

**132 Beginning Acting**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Drama 131A. This course is a beginning level study, practice and execution of the fundamentals of acting designed to develop a foundation in basic acting technique. Emphasis is placed on the effective communication of ideas and emotions by a dramatic character to audience. Topics include staging techniques, improvisation, theater games, scenes, monologues, stage movement, and an introduction to the lexicon of acting for theater. This course is intended for students who are interested in developing basic acting techniques. (FT) AA/AS; CSU; UC.

**133 Intermediate Acting**  
**2 hours lecture, 3 hours lab, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Dramatic Arts 132 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Drama 131B. This course is an intermediate level study of the fundamentals of acting. Emphasis is placed on the use of scene work as a tool for sharpening the actor's skill. Students work on scenes by a variety of playwrights as they increase vocal, physical and emotional flexibility as well as their stage presence.

This course is designed for students majoring in Drama and anyone interested in honing their acting skill. (FT) AA/AS; CSU; UC.

**150 Cinema as Art and Communication I**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is a survey of cinema as it relates to historical, aesthetic and critical influences on American society. Emphasis is placed on the development of the feature film from its inception through the 1960's. Topics include silent film, the introduction of sound, the aesthetics of black and white film, the technology of color, the birth of animated film, the influence of the director, the role of technology, and the resulting influence on an audience. Students are also introduced to the film movements of the modern era, including Italian Neo-Realism, German Expression, and Soviet Montage. This course is designed for students interested in a general survey of cinema. (FT) AA/AS; CSU; UC.

**151 Cinema as Art and Communication II**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course provides a survey of American cinema as it relates to cultural, aesthetic and critical influences on American society. The focus of the course is the development of the feature film from the 1970's through the present. The course traces and explains the impact of film movements of the modern era, the evolution of national cinemas, the innovations in animation and special effects, contemporary experimental cinema, the role of the home movie and video, as well as the influence of the director, the role of technology, and the resulting influence on an audience. This course is intended for all students interested in a general survey of American cinema. (FT) AA/AS; CSU; UC.

**165 Introduction to Stage Movement**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Drama 165A.

This course is an introduction to basic techniques of movement for the stage. Emphasis is placed on the actor's body as an expressive instrument. Students acquire flexibility, strength, and physical repertoire of stage movement. This course is designed for drama and dance majors and anyone interested in honing stage movement skills. (FT) AA/AS; CSU; UC.

**200A Fundamentals of Performance and Production III**  
**192 - 216 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Dramatic Arts 100A and 100B, each with a grade of "C" or better, or equivalent.

*Corequisite:* Dramatic Arts 250.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dramatic Arts 201. This hands-on course focuses on intermediate acting skills and costume design and construction, and theatrical production. Students participate in all aspects of theatrical production through the Mesa College Theatre Company. This course is designed for second-year dramatic arts majors. (FT) AA/AS; CSU; UC.

**200B Fundamentals of Performance and Production IV**  
**12 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Dramatic Arts 100A and 100B, each with a grade of "C" or better, or equivalent.

*Corequisite:* Dramatic Arts 250.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dramatic Arts 202. This hands-on course focuses on intermediate acting skills, theatrical management, and theatrical production. Students participate in all aspects of theatrical production through the Mesa College Theatre Company. This course is designed for second-year dramatic arts majors. AA/AS; CSU; UC.

**235 Literature to Life-A Scene Study Course**  
**6 hours lab, 2 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dramatic Arts 132 with a grade of "C" or better, or equivalent, or approval of instructor.

This course is a performance based class intended for students who have had some acting experience.

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Literature to Life introduces students to dramatic literature, traces the impact of that literature on the time period in which it was originally written, and then relates its influence on contemporary American culture and society. Literature to Life studies a variety of acting genres. Scene work is selected in co-ordination with curriculum in other disciplines. Students rehearse the scenes in the first half of the semester and perform the scenes for both on-campus classes and high schools in the second half of the semester. This course is intended for students who have completed Dramatic Arts 132 and are looking for performance experience. This course may be taken two times using plays from different historical periods. (FT) AA/AS; CSU.

**250 Rehearsal, Production and Performance**  
**3 - 12 hours lab, 1-4 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is a practical study of theatre rehearsal, production and performance. Emphasis is placed on artistic and intrapersonal collaboration in the production process, including script analysis, acting, directing and scenic, costume and lighting design. All students participate in the creation of a fully realized production given as a public performance. This course is designed for drama majors and anyone interested in performance. This course may be taken four times for credit. Students must demonstrate increased proficiency and/or new skill attainment with each repetition. When this course is taken for more than one unit, the additional time is utilized in increasingly complex rehearsal, production and performance roles. (FT) AA/AS; CSU; UC.

**251 Musical Comedy Rehearsal, Production and Performance**  
**3 - 12 hours lab, 1-4 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is a practical study of musical theatre rehearsal, production and performance. Emphasis is placed on the integration of script, music, lyrics, dance and movement. All students participate in the creation of a fully realized musical theatre production given as a public performance. This course is designed for drama majors and anyone interested in musical theatre performance. This

course may be taken four times for credit. Students must demonstrate increased proficiency and/or new skill attainment with each repetition. When this course is taken for more than one unit, the additional time is utilized in increasingly complex rehearsal, production and performance roles. (FT) AA/AS; CSU; UC.

**268 Experimental Theatre**  
**3- 9 hours lab, 1-3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Dramatic Arts 132 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for maximum credit for Dramatic Arts 267.

This course focuses on rehearsal performance and production for experimental theatre. Emphasis is placed on the presentation of theatre styles not usually included in Dramatic Arts programs, such as staged readings, children's theatre, touring theatre, new works and cross curriculum projects. Students may participate in a variety of roles, including playwriting, directing, acting, scenic design, sound design, lighting design, costume design, running crews and marketing. This course is intended for drama majors and anyone with minimal theatre experience. Students may repeat this course up to three times, each time taking on a different role in the production. (FT) AA/AS; CSU.

**290 Independent Study**  
**Hours by Arrangement, 1-3 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Advanced special work in dramatic arts: acting, design, lighting, film, business, makeup, costumes, direction, or play production. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Economics (ECON)

### 120 Principles of Macroeconomics

3 hours lecture, 3 units  
Grade Only

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent or Assessment Skill Level M50 or higher, or equivalent, or math assessment that verifies Intermediate Algebra competency, or any college level Intermediate Algebra course or higher completed with a grade of "C" or better.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5.

This course is an introduction to aggregate economic analysis. Topics include market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics and economic growth. This course is intended for business majors and all students interested in macroeconomics. (FT) AA/AS; CSU; UC.

### 121 Principles of Microeconomics

3 hours lecture, 3 units  
Grade Only

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent or Assessment Skill Level M50 or higher, or equivalent, or math assessment that verifies Intermediate Algebra competency, or any college level Intermediate Algebra course or higher completed with a grade of "C" or better.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is an introduction to economic analysis of specific decision-making sectors in the economy (micro analysis). Sectors include households, firms and government. Topics covered include productivity and costs for individual firms, industry types, the labor market, anti-trust issues, income distribution, and environmental externalities. This course is intended for business majors and all students interested in microeconomics. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience***

(270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.

## Education (EDUC)

### 100 Tutor Training

.5 hour lecture, 1.5 hours lab, 1 unit  
Pass/No Pass Only

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20.

*Limitation on Enrollment:* Student must have completed a minimum of 12 units of college credit with an accumulated grade point average of 3.0 or better in subject area he/she will tutor.

This course prepares college-level students for tutoring adult/college students. Student trainees learn about tutoring methods as well as how to use appropriate written and mediated instructional materials. The course includes supervised tutoring practice. (FT) AA/AS; CSU.

### 150 Advanced Tutor Training

.5 hours lecture, 1.5 hours lab, 1 unit  
Pass/No Pass Only

*Advisory:* Education 100 and Computer Business Technology 120 each with a grade of "C" or better, or equivalent.

The course is designed to prepare college level persons for tutoring adult/college students in an online environment. Online tutoring methods, use of appropriate written and mediated instructional materials and equipment, and supervised practice tutoring are included in this course. Online tutoring techniques and methodology are emphasized. Laboratory hours are by arrangement with the tutorial center coordinators. (FT) AA/AS; CSU.

### 200 Teaching as a Profession

2 hours lecture, 2 units  
Grade Only

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6. This course is a study of the foundations and issues related to effective instruction in reading, writing,

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science and mathematics. Emphasis is placed on both curriculum and pedagogy. Students also explore current educational career options. This course is designed for students considering teaching as a profession as well as for paraprofessionals and tutors. (FT) AA/AS; CSU; UC.

### 203 Service Learning for Prospective Teachers

1 hour lecture, 1 unit

Letter Grade or Pass/No Pass Option

*Limitation on Enrollment:* Health and Safety. Student must meet safety and health clearance standards for public school volunteer experience placement. This course is designed for students considering teaching as a profession, and for prospective tutors. The purpose of this class is to provide early, supervised experience to pre-service teachers in the form of service learning. The lectures provide for orientation, review, reflection and problem solving; in addition, a minimum of 30 hours of volunteer service work is required. Experiential learning activities include observing and/or tutoring at various educational levels. Through this service learning, students are made aware of skills needed in the teaching profession. Additionally, they are mentored in the application of classroom management techniques and routine teaching skills required in the public schools. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Engineering (ENGE)

### 101 Introduction to Engineering

1.5 hours lecture, 1.5 units

Letter Grade or Pass/No Pass Option

*Limitation on Enrollment:* This course is not open to students with previous credit for Engineering 265B: Introduction to Engineering.

This course is an introduction to engineering in the work environment, including familiarization with the different occupations of engineering. Emphasis is placed on engineering requirements, analysis,

design, implementation and testing of actual engineering problems. Students learn the proper use of engineering tools including computers, statistics and computer simulations. This course is designed to help students decide whether to embark on an engineering or technical career. (FT) AA/AS; CSU.

### 116 Computational Methods in Engineering

2 hours lecture, 3 hours lab, 3 units

Grade Only

*Corequisite:* Completion of or concurrent enrollment in: Mathematics 151 with a grade of "C" or better, or equivalent.

This course introduces students to computational methods and their applications to computer-based problem solving for engineers. Students formulate and solve engineering problems through modeling and the application of numerical methods, then evaluate and rationalize the results using computational engineering software. Topics include functions and arrays, data and file management, and standard library packages and software. This course is designed for students majoring in engineering. (FT) AA/AS; CSU; UC.

### 151 Engineering Drawing

6 hours lab, 2 units

Letter Grade or Pass/No Pass Option

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50.

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

This course is a study of engineering design with an emphasis on developing drawing skills and techniques for engineers. Course content includes elementary orthographic and pictorial drawing, sections and dimensioning, instrument and freehand drawing as an aid to visualization and design, and computer-aided design (CAD). This course is designed for the transfer student planning to major in engineering or disciplines included in the physical sciences. (FT) AA/AS; CSU; UC.

### 200 Statics

3 hours lecture, 3 units

Letter Grade or Pass/No Pass Option

*Prerequisite:* Physics 195 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in: Mathematics 151 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for Engineering Technology 150.

This course is a study of the applications of the principles of mechanics to rigid bodies in equilibrium. Course content emphasizes areas of friction, centroids, center of gravity, analysis of structures, moments of inertia and methods of virtual work. This course is designed for the transfer student planning to major in engineering or disciplines included in the physical sciences. (FT) AA/AS; CSU; UC.

## 210 Properties of Materials

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Physics 195 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in: Chemistry 200 and 200L.

This course is a study of the chemical, physical and mechanical properties of engineering materials including metals, ceramics, polymers and composites. Emphasis is placed on function and structure as they relate to specific design considerations. This course is designed for the transfer student planning to major in engineering or disciplines included in the physical sciences. (FT) AA/AS; CSU; UC.

## 240 Digital Systems

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50.

*Limitation on Enrollment:* This course is not open to students with credit for Physical Sciences 265: Digital Systems.

This course is an introduction to modeling, analysis, and design of digital systems, primarily at the Logic Design Level. Students apply the basic theory of switching networks, use Boolean algebra to analyze and synthesize switching networks, design logic gate networks, use simplification schemes to minimize part count and cost while providing optimum performance, and design and analyze sequential and combinational circuits using flip-flops and logic gate networks. This course is designed for the transfer student planning to major in engineering or disciplines included in the physical sciences. (FT) AA/AS; CSU; UC.

## 250 Dynamics

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Engineering 200 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in: Mathematics 252 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for Engineering Technology 250. This course is a study of the fundamental principles of bodies in motion with an emphasis on kinematics and kinetics of particles and rigid bodies, moving reference frames, work-energy, linear and angular momentum relationships and their application to engineering problems. Vector notation is used throughout the course. This course is designed for the transfer student planning to major in engineering or disciplines included in the physical sciences. (FT) AA/AS; CSU; UC.

## 260 Electric Circuits

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Physics 196 and Mathematics 151, each with a grade of "C" or better, or equivalent.

This course is an introduction to network analysis, basic network theorems, mesh and nodal analysis with independent and controlled sources. Course content emphasizes steady state and transient responses of networks, complex frequency transformation; A.C. circuit analysis, power, reactive apparent power, and power factor as well as balanced three-phase electric power systems. This course is designed for the transfer student planning to major in engineering or disciplines included in the physical sciences. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability***

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## English for Speakers of Other Languages (ESOL)

The English for Speakers of Other Languages Program is designed to prepare students to read, write, speak and listen at a level that enables them to succeed in college courses.

The program consists of four levels and the student is assigned a level based on the result of his/her placement test.

The first level, L19, is a combined skills class in a lecture/lab format. Students who successfully complete this course are at the intermediate-low level. Some students at the beginning level may find ESOL 19 difficult. For these students, counselors are available to discuss options and resources, including classes at Continuing Education.

The second and third levels, L20 and L30, are made up of three courses. The grammar-writing component is a six-unit course; the reading and listening/speaking components are three units each.

The fourth level, L40, is a single course in reading and writing. Students who successfully complete ESOL 40 can read and write at an advanced level. They are prepared to take English courses one level below transfer (ENGL 51 & 56).

### 15 Essay Writing and Grammar for Non-Native Speakers of English

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* ESOL Placement Score on the Subject A Proficiency Examination.

This course provides instruction in basic writing, focusing its efforts on the special learning needs of students for whom English is not a first language. Classes are taught on the UCSD campus. Students write essays as exercises in gaining greater control and accuracy in using grammatical and punctuation conventions, achieving acceptable precision in diction and syntax, and practicing analysis and evaluation of the structure, evidence, and argumentation encountered in academic texts. The primary emphasis is on reducing the number and severity of language errors, bringing them to a level acceptable in the academic setting, and on developing writing fluency, and strengthening editing skills. In addition to earning a credit grade for the course, students take a timed-writing examination at the end of the course and must

demonstrate a level of written language proficiency that will enable them to profit from instruction in the next writing course, either Subject A or one of the college writing sequences. Not Applicable to Associate Degree, pre-collegiate basic skills, English as a Second Language.

### 19 Transitional English for ESOL Students

**3 hours lecture, 6 hours lab, 5 Units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Assessment Skill Level L19. Students are advised to take the ESOL placement test prior to enrollment and perform at level 19.

*Limitation on Enrollment:* This course is not open to students with credit for English 007 or 58.

This course prepares students to read, write, listen and speak at the intermediate-low ESOL level to facilitate successful participation in a college setting. This course will emphasize development of reading and writing skills in academic contexts, focusing heavily on the production of complete sentences with minimal errors and basic paragraph and composition development. Satisfactory completion of this course will enable students to enroll in ESOL 20, 21 and 22. (FT) Credit for this course is not applicable to the associate degree.

### 20 Writing for Non-native Speakers of English I

**6 hours lecture, 6 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English for Speakers of Other Languages 19 with a grade of "C" or better, or equivalent, or Assessment Skill Level L20.

*Limitation on Enrollment:* This course is not open to students with credit for English 008 or 60.

This course in writing and grammar prepares students to write at the intermediate-mid ESOL level. In this course, students learn to write paragraphs, basic compositions and other types of texts and practice critical reasoning in their writing. Students read and understand a variety of texts and develop academic study skills and work habits. Students also practice grammatical structures in the production and editing of compositions so that meaning is generally clear and not obscured by error. (FT) Credit does not apply to the associate degree.



## 21 Reading for Non-native Speakers of English I

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English for Speakers of Other Languages 19 with a grade of "C" or better, or equivalent, or Assessment Skill Level L20.

This course prepares students to read at the intermediate-mid ESOL level. In this course, students learn reading strategies and apply them as they read a variety of texts. Students practice identifying text organization, vocabulary and grammar to facilitate comprehension. Students also begin to use information from class readings in discussion, critical thinking and writing. (FT) Credit does not apply to the associate degree.

## 22 Listening and Speaking for Non-native Speakers of English I

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English for Speakers of Other Languages 19 with a grade of "C" or better, or equivalent, or Assessment Skill Level L20.

This course prepares students to understand spoken English and to speak at the intermediate-mid ESOL level. In this course, students begin to develop communicative competence through listening to and participating in a variety of communicative activities. Students also begin to study grammatical structures specifically related to oral/aural course work to make connections between structure and communicative needs. In addition, students discuss, write about and think critically about information from oral and written sources. (FT) Credit does not apply to the associate degree.

## 30 Writing for Non-native Speakers of English II

**6 hours lecture, 6 units**  
**Grade Only**

*Prerequisite:* English for Speakers of Other Languages 20, 21, and 22, each with a grade of "C" or better, or equivalent, or Assessment Skill Level L30.

*Limitation on Enrollment:* This course is not open to students with credit for English 009 or 61.

This course in writing and grammar prepares students to write at the intermediate-high ESOL level. In this course, students learn to write compositions and other types of texts that communicate a basic awareness of critical reasoning and the components of the academic essay and other types of writing. To achieve these goals,

students learn and apply knowledge of syntax and grammatical structures in the production and editing of compositions so that errors, which may be frequent, will not obscure meaning. Students also read and understand a variety of texts as well as communicate a familiarity with academic study skills and work habits. Credit does not apply to the associate degree.

## 31 Reading for Non-native Speakers of English II

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English for Speakers of Other Languages 20, 21, and 22, each with a grade of "C" or better, or equivalent, or Assessment Skill Level L30.

This course prepares students to read at the intermediate-high ESOL level. In this course, students continue to develop reading skills needed for academic and workplace success. To achieve these goals, students read a variety of texts and apply appropriate reading strategies to facilitate comprehension. In addition, students engage in activities to build background knowledge as well as knowledge of text structure, grammar and vocabulary. Students also use information from class reading in class discussion, critical thinking and writing. (FT) Credit does not apply to the associate degree.

## 32 Listening and Speaking for Non-native Speakers of English II

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English for Speakers of Other Languages 20, 21, and 22, each with a grade of "C" or better, or equivalent, or Assessment Skill Level L30.

This course prepares students to understand spoken English and speak at the intermediate-high ESOL level. In this course, students continue to develop communicative competence through listening to and participating in a variety of communicative activities. Students also continue to develop knowledge of grammatical structures specifically related to oral/aural course work. In addition, students discuss, write about, and think critically about information from oral and written sources. (FT) Credit does not apply to the associate degree.

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## 40 Reading and Writing for Non-native Speakers of English III

**6 hours lecture, 6 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English for Speakers of Other Languages 30, 31, and 32, each with a grade of "C" or better, or equivalent, or Assessment Skill Level L40.

*Limitation on Enrollment:* This course is not open to students with credit for English 10 or 62.

This course prepares students to read and write at the advanced ESOL level. In this course students write essays and other types of texts that have some complexity of expression, contain relatively few mechanical and grammatical errors and illustrate evidence of critical reasoning. Students also read academic and workplace texts and apply study skills and work habits necessary for success in further academic and vocational studies. Students who complete this course will be prepared to enter English 48 and English 49. (FT) Credit does not apply to the associate degree.

### English (ENGL)

## Basic Skills Courses

All courses at this level are offered for college credit. Credit for these courses will not apply toward the associate degree but will count toward the determination of a student's workload and eligibility for financial aid.

## Reading

### 42 College Reading and Study Skills I

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Assessment Skill Level R3. This course is designed for native speakers of English. ESL students should enroll in ESOL 19, 20, 21, 22, 30, 31, 32 or 40 as recommended by the placement test for non-native English speakers.

*Limitation on enrollment:* This course is not open to students with previous credit for English 55.

This course is designed for students who need to improve their reading skills in order to succeed in college courses. In this course, students practice the reading process, reading extensively and intensively, and develop confidence and enjoyment in reading. Students also read and respond to a variety of materials, including non-fiction and textbook

assignments, and learn strategies for reading difficult material to facilitate comprehension and critical thinking. In addition, students develop writing, vocabulary, discussion, and study skills. (FT) Credit for this course does not apply to the associate degree.

### 48 College Reading and Study Skills II

(Formerly English 56)

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English as a Second Language 40 or English 42, with a grade of "C" or better, or equivalent, or Assessment Skill Level R4.

This course is designed for students who need to develop advanced reading skills to succeed in transfer level courses. In this course, students focus on academic reading and study skills and practice strategies to improve reading comprehension and critical thinking. Students also build writing, vocabulary, discussion and study skills to accurately express information and reflect the meaning of class readings. (FT) Not Applicable to Associate Degree, pre-collegiate basic skills.

## Writing

### 43 English Review

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Assessment Skill Level W3; or English 42 with a grade of "C" or better, or equivalent, or Assessment Skill Level R4. This course is designed for native speakers of English. ESL students should enroll in ESOL 19, 20, 21, 22, 30, 31, 32, or 40 as recommended by the placement test for non-native speakers.

*Limitation on enrollment:* This course is not open to students with previous credit for English 50. This course is designed for students who need review of and practice with writing unified paragraphs and purposeful basic compositions. In this course students develop knowledge of the writing process as well as knowledge of grammatical structures to compose clear and complete sentences, paragraphs, and short essays. Students also read texts as the basis for writing and develop critical thinking skills necessary for success in college courses. (FT) Credit for this course does not apply to the associate degree.

**49 Basic Composition**

(Formerly English 51)

**3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* English as a Second Language 40 or English 43, with a grade of "C" or better, or equivalent, or Assessment Skill Level W4. This course is designed to prepare students to write successfully at the transfer level. In this course students practice the writing process in the production and editing of essays. Students also review grammatical and mechanical structures as needed to support the successful expression of meaning. In the addition, students read and think critically using a variety of texts which are the basis for writing and class discussion. A District-wide, timed-writing examination, holistically graded by English instructors is part of the final course grade. Designated section of this course may be taught from a specific cultural perspective and are cross-listed under Black Studies and Chicano studies in the class schedule. (FT) Not Applicable to Associate Degree, pre-collegiate basic skills.

**English 101 Preparatory Courses**

All courses at this level are offered for college credit. Three units of course work at this level may be applied to the associate degree. Credit for courses at this level will count toward the determination of a student's workload and eligibility for financial aid. Writing

**64 Writing Essays****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* A score of 3 or lower on the University of California "Subject A" Exam. This is a course in essay writing that focuses on the writing of the argumentative essay. Classes are taught at the UCSD campus. In this course students practice the writing process in the production and editing of essays. In addition, students read and think critically using a variety of texts that are the basis for writing and class discussion. In addition to earning a grade for the course, students must also pass a timed-writing examination at the end of the course, holistically graded by English instructors. This course is intended for students who need to complete the Subject A requirement and develop effective writing skills. (FT) Associate Degree Credit only and not Transferable.

**97 College Writing Skills****3 hours lab, 1 unit  
Pass/No Pass Only**

*Advisory:* English 43 with a grade of "C" or better, or equivalent, or Assessment Skill Level W4. This course provides the application of college writing skills for all disciplines. Emphasis is on the writing of organized, clear, concise, coherent, and carefully reasoned essay exams, book reports, research papers, technical reports, expository and argumentative essays, and other college writing assignments. The course is individualized, with students working on specific learning outcomes tailored to their needs. (FT) Associate Degree Credit only and not Transferable.

**English Courses**

(Also see Humanities, page 374)

**101 Reading and Composition****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; or English 37A or English 37B or English 64 with a grade of "C" or better, or equivalent.

This course is designed for transfer-level students or for those who want to develop competence in college level reading and composition. In this course, students read, analyze, discuss and think critically using a variety of works and sources. Based on these activities, students write essays, fully-documented research projects, and other types of texts for various purposes and audiences. This written work, which demonstrates effective, logical, and precise expression of ideas, totals at least 6000 graded words. Designated sections of this course may be taught from a specific cultural perspective. (FT) AA/AS; CSU; UC.

**105 Composition and Literature****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; or English 064 or English

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37A or English 37B with a grade of "C" or better, or equivalent.

This is a composition course using literature as a background for improving writing skills. Students discuss the general nature and elements of literature and literary criticism by reading and analyzing representative works of fiction, drama, and poetry. Based on this subject matter, students are required to write a variety of critical papers, including a research paper, comprising at least 6,000 graded words. This course is designed for transfer students and is suitable for those students interested in literature and in developing strong critical and analytical writing skills. Designated sections of this course may be taught from a specific cultural perspective. (FT) AA/AS; CSU; UC.

## 202 Introduction to Linguistics

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course is designed to introduce students to the field of Linguistics. In this course, students develop an understanding of the nature of language through the study of core areas in linguistics including phonetics, phonology, morphology, syntax, semantics and pragmatics. Students also read, write and think critically about related fields such as psycholinguistics, sociolinguistics, historical linguistics, and animal communication. This course is designed for students who plan to transfer as well as for those with a general interest in linguistics. (FT) AA/AS; CSU; UC.

## 205 Critical Thinking and Intermediate Composition

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course is designed to help students who are planning to transfer to a four-year college or university to develop critical thinking, reading, writing, and research skills beyond the level of English 101 and English 105; it is a required course

within many curricula. Assignments require a total of at least 8,000 words of graded writing. The course focuses on writing argumentative prose and critically evaluating arguments. A majority of the written assignments require some research and documentation, including library research. Designated sections of this course may be taught from a specific cultural perspective and are cross-listed under Black Studies and Chicano Studies in the catalog and class schedule. (FT) AA/AS; CSU; UC.

## 207 The Art of the Sentence

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This is a course in sentence stylistics beyond the level of English 101 and English 105. The course focuses on the intensive development of skills in analysis and application of linguistic and rhetorical principles. It stresses the interconnections among grammatical design, content, and purpose. Students move beyond basic correctness to sophisticated aspects of sentence patterning in order to achieve clarity and force in written expression. Assignments require a total of at least 8,000 words of graded writing. This course is intended for transfer students, those who desire to write and/or speak as effectively as possible in their academic work and/or career, and those with a special interest in language and linguistics. (FT) AA/AS; CSU; UC.

## 208 Introduction to Literature

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; English 105 with a grade of "C" or better, or equivalent.

This course provides an inquiry into the basic nature of literature and is designed for students with a general interest as well as for those majoring in the field. Students read and analyze representative literary works in fiction, non-fiction, poetry and drama from various cultures and periods, applying practical critical techniques in essays, reports, and exams. (FT) AA/AS; CSU; UC.

**209 Literary Approaches to Film****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course focuses on literary values, such as plot, conflict, symbolism, theme and character as observed in feature films. It also focuses on cultural values with special reference as to how films define problems, establish a network of varied values, confront moral dilemmas, and explore human emotions. This course satisfies general education requirements in humanities and serves as an elective for English majors. It is designed for students who are interested in literature as well as those interested in the study of film. (FT) AA/AS; CSU; UC.

**210 American Literature I****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course is a survey of American literature from its beginning to the late 19th Century including representative works from the Colonial Period (1588-1765), the New Republic (1765-1829). In this class students read and discuss the authors of these periods, addressing relevant social, political, cultural, and religious issues. The students critically analyze in essays, exams, and research papers the authors, specific works, and other topics as assigned. Classroom activities include lectures and discussions of the principal authors and works. Selected representative readings are required. (FT) AA/AS; CSU; UC.

**211 American Literature II****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

A survey of American Literature from the late 19th Century to the present which includes representative works from the Age of Realism (1865-1914), the

Modernist Period (1914-1945), and the Postmodern Era (1950-present). In this class students read and discuss the authors of these periods, addressing relevant social, political, cultural, and religious issues. The students critically analyze in essays, exams, and research papers the authors, specific works, and other topics as assigned. Classroom activities include lectures and discussions of principal authors and their works. Selected representative readings are required. (FT) AA/AS; CSU; UC.

**215 English Literature I: 800-1799****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course offers a survey of British literature from the Anglo-Saxon period to the pre-Romantic period (approximately 800 to 1799), including representative works from the Old and Middle English periods, the Renaissance and the Elizabethans, the Cavalier, Metaphysical, and Puritan periods, the Restoration and the Neoclassical periods. Students read and discuss the major authors of these periods, addressing relevant social, political, cultural, and religious issues. Students critically analyze, in essays and research papers, authors, specific works, and other topics as assigned. This course satisfies requirements for the major in English as well as general education and humanities requirements. (FT) AA/AS; CSU; UC.

**216 English Literature II: 1800-Present****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course offers a survey of British literature from the Romantic period to the 20th century (approximately 1800 to the present) including representative works from the pre-Romantic and Romantic periods, the Victorian and later Victorian period, and the Modern period. Students read and discuss the major authors of these periods,

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addressing relevant social, political, cultural, and religious issues. Students critically analyze, in essays and research papers, authors, specific works, and other topics as assigned. This course satisfies requirements for the major in English as well as general education and humanities requirements. (FT) AA/AS; CSU; UC.

### **220 Masterpieces of World Literature I: 1500 BCE - 1600 CE**

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course offers a survey of world literature in translation, from the ancient world through the European renaissance (approximately 1500 BCE - 1600 CE), including the established classic literature of the Near East, Greece and Rome, India, China, Japan, Africa, the Islamic world, and Europe. Students read and discuss a variety of authors from these regions, and address relevant social, cultural, and religious issues. Students critically analyze, in essays and papers, specific authors, works, themes, and other topics as assigned. (FT) AA/AS; CSU; UC.

### **221 Masterpieces of World Literature II: 1600 - Present**

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course offers a survey of world literature in translation, from the close of the European renaissance through the present time, including the literature of Asia, Europe, North America, Central America, South America, Africa and the Islamic world. Students read and discuss a variety of authors from these regions, and address relevant social, religious, and cultural issues. Students critically analyze, in essays and papers, specific authors, works, themes, and other topics as assigned. This course satisfies requirements for the major in English as well

as general education and humanities requirements. (FT) AA/AS; CSU; UC.

### **230 Asian American Literature**

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course is a survey of Asian American literature from the 1900's to the present that includes representative works by early immigrants, as well as the writing of contemporary Asian American writers. Students read and discuss the authors and major works, while addressing relevant social, political, cultural, religious, and sociolinguistic issues. The students critically analyze these issues and other topics addressed in specific works in assigned essays and research papers. Selected representative readings are required. This course is designed for students transferring with a literature or history major as well as those with an interest in this field. (FT) AA/AS; CSU; UC.

### **238 Evaluating Children's Literature**

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course is a survey of children's literature from folktales to current works. The course compares works from a variety of authors, cultures, and historical periods while emphasizing current American works. Principles of literary criticism are applied in evaluating the themes, language, and structure of works studied. This class is suitable for students interested in literature as well as for students who are preparing to teach. (FT) AA/AS; CSU.

### **240 Shakespeare**

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Advisory:* English 101 with a grade of “C” or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of “C” or better, or equivalent.

This course is a survey of William Shakespeare’s work. Emphasis is placed on analyses of representative plays and poems from the perspectives of theme, character, structure, and language in historical and contemporary contexts. This course is designed for students majoring in English and those with a general interest in the author or the period. (FT) AA/AS; CSU; UC.

### **245 Writing Creative Nonfiction**

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* English 101 or English 105 with a grade of “C” or better, or equivalent, or Assessment Skill Levels R6 and W6.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 246A and/or 246B.

This is an intensive course in writing creative nonfiction. Exploration of the principles and methods of creative nonfiction are offered through lecture and the critical analysis of student and master works addressing personal, social, political, and/or cultural issues. Students submit original creative nonfiction for class discussion and learn to use the workshop format to further their work. Increased writing skills help students not only in preparing for such writing-related careers as publishing, journalism, communications, and education, but also in better understanding literature and learning to use language successfully, which is necessary in many professions. (FT) AA/AS; CSU; UC.

### **247 Writing Seminar - Poetry**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105 with a grade of “C” or better, or equivalent, or Assessment Skill Levels R6 and W6.

This introductory course provides instruction in the study and creation of poetry. Students read and critique traditional, contemporary and multicultural poems that provide models for their original work. In addition, students create poetry which is discussed and analyzed by the class. Students learn to identify the basic elements and techniques of poetry, use invention strategies, understand different forms, analyze poems, examine published and unpublished poems as models for writing poetry, use constructive

criticism, identify current poetic values, and explore potential markets for publishing poems. (FT) AA/AS; CSU; UC.

### **249 Introduction to Creative Writing**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, with a grade of “C” or better, or equivalent, or Assessment Skill Levels R6 or W6.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 249A and 249B.

This is an introductory course in creative writing which focuses on the study of fiction and poetry. Students analyze technique in the works of professional writers and in their own original works. After submitting writing, students participate in informal discussion of their work, which includes helpful criticism from the class and the instructor. Increased writing skills help students prepare for careers in communication, education, writing, advertising, selling, journalism, law, business, and government. (FT) AA/AS; CSU; UC.

### **253 Fundamentals of Fiction Writing**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, with a grade of “C” or better, or equivalent, or Assessment Skill Levels R6 or W6.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 252A.

This is an intensive course in fiction-writing techniques. Students read and evaluate fiction using elements of fiction writing as well as contemporary issues. Students write original fiction and submit for class discussion and learn to use criticism offered by the instructor and peers. Critical thinking abilities are applied as students analyze student and master works addressing personal, social, political, and/or cultural issues. Increased writing skills help students who may be interested in a writing-related career, such as publishing, journalism, communications, and education, but also in better understanding literature, and learning to use language successfully. (FT) AA/AS; CSU; UC.

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**254 Intermediate Fiction Writing****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 253 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 252B. This course provides instruction in writing fiction at the intermediate level. Students are expected to exhibit a deeper understanding of master work and to write fiction addressing personal, social, political, and/or cultural issues at a more sophisticated level by more fully developing the elements of fiction in their writing. Additionally, students are taught to be better able to articulate and to more readily accept and incorporate criticism. This course may be of interest to students with the goal of further improving creative writing skills or creating a portfolio prior to transferring to a 4-year program in creative writing, or to anyone wishing to improve his or her creative writing skills. It is expected these students should benefit and make further advancements by continuing in the workshop atmosphere. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Environmental Design Studies**

(See Architecture, page 272)

**Fashion (FASH)****105 Introduction to Fashion****3 hours lecture, 3 units****Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a survey of the fashion industry. Emphasis is placed on all aspects of the fashion field including the designing, manufacturing, retailing, and promotion. Students develop a vocabulary of fashion terminology and an awareness of the relationship of fashion trends to current economic

and social factors relating to men's, women's and children's clothing. The global nature of fashion is also discussed. This course is designed for anyone interested in pursuing a career in fashion. (FT) AA/AS; CSU.

**108 Analysis, Evaluation, and Comparison of Ready-to-Wear Fashion****3 hours lecture, 3 units****Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5, and M20; and Concurrent enrollment in Fashion 105.

This course provides an analysis of the quality of materials, design, and construction in ready-to-wear garments and accessories. This course includes comparisons of the processes involved in manufacturing and concepts of sizing. Principles of fit, as well as aids in buying and selling are also included. This course is required for Fashion Merchandising majors. The content is beneficial to marketing students interested in ready-to-wear and retail skills. (FT) AA/AS; CSU.

**110 Fashion Buying/Management****3 hours lecture, 3 units****Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M30.

This course is a study of buying for a variety of retail concerns. Emphasis is placed on the role of the buyer in maximizing sales, managing inventories, negotiating with vendors, and creating customer satisfaction through providing desired merchandise assortments. Topics also include the principles of retail accounting as they apply to the role of the buyer. This course is designed for fashion merchandising and business students and anyone interested in exploring retail buying as a career. (FT) AA/AS; CSU.

**112 Fashion Promotion****3 hours lecture, 3 units****Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course is a study of fashion promotion. Emphasis is placed on marketing fashion through promotional events. Students conceptualize, plan, budget, promote and direct fashion events in the community and on campus. Topics also include



publicity, event advertising, and community presentations. This course is intended for fashion majors and students interested in fashion promotion. (FT) AA/AS; CSU.

### 115 Visual Merchandising

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is study of the processes required to plan, coordinate and build visual displays for the fashion industry. Emphasis is placed on the principles and elements of design. This course is designed for students interested in creating fashion displays. (FT) AA/AS; CSU.

### 120 Fashion History and Trends

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

This course is a survey of the evolution of clothing styles throughout history from the Egyptian period to the present. Emphasis is placed on the relation of recurring style trends to contemporary fashion. This course is designed for fashion design majors and anyone interested in costuming, museum work or fashion in history. (FT) AA/AS; CSU.

### 121 Ethnic Costume: History and Design

**1 hour lecture, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is a study of historical and contemporary ethnic costume from around the world. Emphasis is placed on silhouette, design, construction and embellishment. This course is designed for fashion majors and all students interested in ethnic costume. (FT) AA/AS; CSU; UC.

### 125 Fashion Selection

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the cultural, psychological and sociological aspects of clothing, including art elements and principles of design as they relate to

clothing selection. Emphasis is placed on wardrobe planning, buying practices, and standards of quality. This course is intended for Fashion Design majors and students interested in wardrobe planning. AA/AS; CSU.

### 130 Apparel Construction I

**3 hours lecture, 3 units  
Grade Only**

*Corequisite:* Fashion 199A.

*Advisory:* English 48 and English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M30.

This course is a study of basic apparel construction using standard and industry methods. Emphasis is placed on garment construction, sewing equipment operation and maintenance, and analysis of fitting problems. This course is intended for all fashion design majors and is open to students interested in fitting and constructing clothing. (FT) AA/AS; CSU.

### 131 Apparel Construction II

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Fashion 130 with a grade of "C" or better, or equivalent.

*Corequisite:* Fashion 199C.

*Advisory:* English 48 and English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Fashion 265: Clothing Construction.

This course is a study of advanced apparel construction. Emphasis is placed on current fabrics and techniques used in contemporary ready-to-wear and couture. This course is intended for all fashion design majors and is open to students interested in fitting and constructing clothing. (FT) AA/AS; CSU.

### 135 Tailoring

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20; Fashion 130 with a grade of "C" or better, or equivalent.

The focus of this course is the presentation of

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various techniques of tailoring and fitting a coat or jacket utilizing a commercial pattern. This is a recommended course for all fashion design majors and is open to any student interest in expanding intermediate sewing skills. (FT) AA/AS; CSU.

**140 Clothing Design and Flat Pattern I**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20; Fashion 130 with a grade of "C" or better, or equivalent. This course is a study of clothing design through flat pattern making. Students learn to make patterns by manipulation of a basic sloper to create a variety of designs. This is a required class for all fashion design majors and students interested in creating original clothing designs. (FT) AA/AS; CSU.

**141 Clothing Design and Flat Pattern II**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20; Fashion 140 with a grade of "C" or better, or equivalent. This course is an advanced study of the clothing design through flat pattern making and drafting. Emphasis is placed on the principles of design and the application of those techniques in developing, fitting, and constructing original garments. This course is intended for fashion design majors and students interested in creating original clothing designs. (FT) AA/AS; CSU.

**142 Fashion Sketching**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 42 and English 43 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4 and M20. In this course the student learns fashion illustration techniques for drawing design sketches, production technical flats and theme presentation boards. The student learns how to draw and use the basic figure (croquis) and to draw garment shapes and original designs. Exposure to various media enhances personal style and expression. This course is required for fashion design majors. (FT) AA/AS; CSU.

**145 Clothing Design Through Draping**  
**3 hours lecture, 3 units**  
**Grade Only**

*Corequisite:* Fashion 199B with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M5; Fashion 130 and 140, each with a grade of "C" or better, or equivalent.

This course is a study of the terminology and basic techniques of fabric draping. Students drape and fit fabrics on a three-dimensional form, design patterns and construct original garments from these patterns. This course is designed for fashion design majors and any student interested in expanding design skills. (FT) AA/AS; CSU.

**150 Advanced Fashion Design**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Fashion 130 and 140, each with a grade of "C" or better, or equivalent.

This course covers advanced principles of designing, creating and producing original garments for specific customer markets. Students develop a collection of original garments for presentation to the fashion industry. This course is intended for fashion design majors and includes basic pattern grading. AA/AS; CSU.

**155 Fashion Field Studies**  
**3- 13.5 hours lab, 1 - 4 units**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a field study of the fashion industry. Emphasis is placed on field trip outings to a variety of fashion merchandising and design businesses in the San Diego and Los Angeles areas. This course is designed for students majoring in fashion and those who wish to explore employment opportunities in the fashion industry. (FT) AA/AS; CSU.

**160 Millinery Techniques**  
**1 hour lecture, 1 unit**  
**Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Fashion 265: Beginning Millinery.

This course is a study of millinery design. Emphasis is placed on the use of millinery techniques to create a brimless hat. This course is for all students preparing for a career in the fashion industry, costume design, or millinery or anyone interested in hat making. (FT) AA/AS; CSU.

### 161 Millinery Flat Pattern Design

**1 hour lecture, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Fashion 265: Intermediate Millinery.

This course is a study of millinery design through flat pattern making. Students learn to design and construct hats by utilizing a pattern to create a variety of styles. This course is designed for students preparing for a career in the fashion industry, costume design or millinery, and any student interested in hat making. (FT) AA/AS; CSU.

### 162 Millinery Blocking

**1 hour lecture, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Fashion 265: Advanced Millinery.

This course is a study of millinery design through blocking techniques. Students construct an original hat design using the blocking techniques. This course is designed for students preparing for a career in the fashion industry, costume design, or millinery and anyone interested in hat making. (FT) AA/AS; CSU.

### 170 Textile Design

**1 hour lecture, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Fashion 265: Textile Design.

This course covers a variety of textile and surface design techniques that are used to create original textile fabrics. Emphasis is placed on textile design terminology as well as dyeing, printing, and surface embellishment techniques. This course is intended for students interested in creating original fabrics for use in fashion, theatre and interiors. (FT) AA/AS; CSU.

### 171 Computer Flat Pattern Design

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Fashion 140 with a grade of "C" or better, or equivalent.

This course is a study of pattern drafting by computer utilizing software designed for home and small business use. Emphasis is placed on various approaches to garment design and pattern drafting. Topics include comparisons between hand-drafting techniques and computer-aided techniques, pattern packet preparation and copying ready-to-wear garments. This course is intended for fashion design students and students interested in creating original patterns for small business purposes. (FT) AA/AS; CSU.

### 172 Computer Flat Pattern Design II

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Fashion 140 with a grade of "C" or better, or equivalent.

This course is a study of pattern drafting by computer utilizing industrial software for apparel production. Students utilize plotting and digitizing equipment to facilitate the pattern drafting process. This course is intended for fashion design students. (FT) AA/AS; CSU.

### 173 Fashion Marketing on the Internet

**16 - 18 hours lecture, 1 unit  
Grade Only**

*Advisory:* Fashion 105 and 175, each with a grade of "C" or better, or equivalent.

This course is a study of fashion marketing on the Internet. Emphasis is placed on the development of webpages and a survey of social media used to promote business in the fashion field. Students develop a marketing plan and web site structure for a fashion-oriented business and create a simple

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web site that effectively markets a fashion or design product. This course is intended for fashion students and anyone interested in promoting a fashion business. (FT) AA/AS; CSU.

### **175 Computer Fashion Design I: Adobe PhotoShop**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

In this class, students draw and design apparel garments and fashion illustrations by computer utilizing Adobe PhotoShop. Emphasis is placed on computer graphic techniques that facilitate fashion design, fabric development and rendering, and garment merchandising. Students build digital presentations and utilize a variety of digital imagery sources as aids to the design process. This course is designed for students majoring in the fashion design and merchandising and all students interested in design and computer graphics. (FT) AA/AS; CSU.

### **176 Computer Fashion Design II: Adobe Illustrator**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course offers hands-on instruction on the use of Adobe Illustrator software to design fashion drawings and technical drawings pertaining to fashion. Computer techniques involving object-oriented design include fashion figure and flat garment drawing, fabric design/rendering and technical drawing. Students integrate image processing and presentation software, scanners and other peripheral equipment with Illustrator. This course is intended for fashion and computer fashion technology students and anyone interested in design and computer graphics. (FT) AA/AS; CSU.

### **178 Computer Publishing and Portfolio**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skills Level R5 and W5.

This course is a practical study of graphic and publishing software used to create fashion brochures, flyers, newsletters, business materials

and other documents related to fashion marketing and promotion. Students prepare electronic presentations and portfolios. This course is intended for all students in the design field. (FT) AA/AS; CSU.

### **179 Fashion Photo Styling**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

In this course, students develop an understanding of all aspects of commercial photo shoots and the uses of photography in fashion marketing. Students will train for a career in fashion photo styling and gain hands-on experience with techniques used in various styling specialties. In addition, students integrate digital photography, publishing, and related software with their own projects and portfolio building. This course is designed for students majoring in the fashion field. (FT) AA/AS; CSU.

### **190 Fashion Entrepreneurship**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20.

This course is a practical study of the procedures associated with starting a business in the fashion industry. Emphasis is placed on an analysis of the pros and cons of running a fashion business as well as on the practicalities of converting ideas into a successful business plan for a profitable venture. This course is designed for students majoring in Fashion Design or Merchandising and anyone interested in starting a new business in a fashion related business. (FT) AA/AS; CSU.

### **199A Fashion Laboratory A**

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Fashion 130 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for maximum credit for Fashion 199.

This laboratory course provides hands-on experience in basic apparel construction. Students apply standard and industry methods to construct garments and maintain and operate sewing equipment. This course is designed for all fashion

design majors and is open to students interested in fitting and constructing clothing. (FT) AA/AS; CSU.

### 199B Fashion Laboratory B

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Fashion 145 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for maximum credit for Fashion 199.

This laboratory course provides hands-on experience in basic draping. Students apply industry methods to drape three-dimensional designs. This course is designed for all fashion design majors and is open to students interested in draping for the fashion industry. (FT) AA/AS; CSU.

### 199C Fashion Laboratory C

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Fashion 131 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for maximum credit for Fashion 199.

This course provides hands-on experience in advanced ready-to-wear and couture apparel construction. Students apply advanced standard and industry methods to construct advanced-level garments. This course is designed for all fashion design majors and is open to students interested in fitting and constructing clothing. (FT) AA/AS; CSU.

### 270 Work Experience

**Hours by Arrangement (One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work.), 1-4 units  
Grade Only**

A program of on-the-job learning experiences for students employed in a job related to their major or their educational goals. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. AA/AS; CSU.

*This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.*

## Fillipino Studies (FILI)

### 100 Filipino American Experience

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course introduces students to sociological overviews of Filipino Americans. Students analyze current Filipino American perspectives by discussing the history of the Philippines, factors contributing to immigration to the United States, and aspects of the integration experiences that may be unique to Filipino Americans. (FT) AA/AS; CSU; UC.

*This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.*

## French (FREN)

### 101 First Course in French

**5 hours lecture, 5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 43 with a grade of "C" or better, or equivalent, or Assessment Skill Level W4.

*Limitation on Enrollment:* This course is not open to students with credit for French 100.

This is an entry-level course designed to introduce students to the French language and cultures of the French-speaking world. In this interactive course, students use the language by speaking, listening, reading, and writing at the novice level. Basic language structures and vocabulary for communication are examined and explored in French. (FT) AA/AS; CSU; UC Transfer Limitation: Corresponds to two years of high school study.

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**102 Second Course in French****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* French 101 or two years of high school French, with a grade of "C" or better, or equivalent. This course is a continuation of French 101 and is intended for students interested in further study of the French language and cultures of the French-speaking world. In this interactive course, students use listening, reading, speaking and writing at a more complex level than in the first course. The students further develop their receptive and productive competencies to the low or mid-intermediate level. Additional language structures and vocabulary for communication are examined and explored in French. (FT) AA/AS; CSU; UC.

**201 Third Course In French****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* French 102 or three years of high school French with a grade of "C" or better, or equivalent. This is an intermediate course in French. Language structures and vocabulary for communication are examined and explored through speaking, listening, reading and writing at the intermediate level. Students explore in more depth than in previous courses the history and the culture of the French-speaking world. This course is appropriate for students preparing for a major in French as well as for those who wish to continue their studies of the French language and culture. (FT) AA/AS; CSU; UC.

**202 Fourth Course in French****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* French 201, or four years of high school French, with a grade of "C" or better, or equivalent. This is an advanced-intermediate course and is the fourth course in the French language sequence. In this interactive course, language structures and vocabulary for communication are examined and studied through speaking, listening, reading and writing at the high-intermediate level. Students continue to explore the history and the culture of the French-speaking world. Readings of literary and culturally relevant authentic materials are examined in depth. This course is designed for students preparing for a major in French as well as for those who have a strong interest in the French language and culture. (FT) AA/AS; CSU; UC.

**210 The Grammar of Spoken French I****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* French 102 with a grade of "C" or better, or equivalent, or successful completion of three years of high school French.

*Advisory:* Concurrent enrollment in: French 201. This course further develops oral comprehension and fluency as well as written communication at a mid-intermediate level in French through culturally relevant materials. Students develop spoken and written vocabulary, dramatize everyday topics of conversation, interpret and describe materials, and compare and contrast the cultures of the French speaking world with U.S. culture both orally and in writing. Writing strategies are emphasized and literature is introduced. This course is intended for students who want to enhance their skills in the French language. Students who intend to major or minor in French are advised to take French 210 concurrently with French 201, if possible. (FT) AA/AS; CSU; UC.

**211 The Grammar of Spoken French II****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* French 210 with a grade of "C" or better, or equivalent.

This course develops oral comprehension and fluency as well as written proficiency in French at an advanced-intermediate level through reading, analyzing, discussing, and reporting on culturally relevant materials. Students develop oral and reading vocabulary skills, study the cultures of the French-speaking world, and further develop the reading strategies introduced in French 210 through reading literature. This course is intended for students who want to further enhance their skills in the French language. Students who plan to major or minor in French are advised to take French 211 concurrently with French 202. (FT) AA/AS; CSU; UC.

**290 Independent Study****3 - 9 hours other, 1-3 units****Grade Only**

*Advisory:* Fashion 130 or Fashion 140, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Must obtain an Add Code from the instructor for enrollment.

For students who wish to research and create special fashion-related projects. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Garden Design

(See Architecture page 272)

## Geographic Information Systems (GISG)

### 90 Introduction to GIS for Fire Fighters

**1 hour lecture, 1.5 hours lab, 1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 101 and 114, each with a grade of "C" or better, or equivalent. This course covers the fundamentals of Geographic Information Systems (GIS) for fire fighters, using spatial information and software to map and analyze information associated with fire planning. Labs include hands-on experience with ArcGIS software in the subject areas of map making; scanning, georeferencing, and digitizing fire pre-plans; GIS data creation and management, and working with geoprocessing tools. This course provides the skills and knowledge to create basic spatial data and GIS maps, particularly with reference to fire pre-plans. Students also learn basic GIS skills, a foundation for further study in GIS or to pursue a GIS degree or certificate. (FT) Associate Degree Credit only and not Transferable.

### 104 Geographic Information Science and Spatial Reasoning

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent or Assessment Skill Level M50. *Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6. This course is an introductory survey of Geographic Information Systems (GIS), including cartography, remote sensing, spatial analysis, and global positioning systems (GPS). Emphasis is placed on the ways in which these technologies are applied to human and environmental problems. Students

use spatial data to visualize information and identify spatial patterns and are introduced to map interpretation, georeferencing, and spatial data management. This course is designed for students and professionals who use GIS to better understand and analyze geographic data in their field. (FT) AA/AS; CSU; UC.

### 110 Introduction to Mapping and Geographic Information Systems

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Level R6 and W6; and Computer Business Technology 101, 114 and 161, each with a grade of "C" or better, or equivalent.

This course covers the origins and fundamentals of Geographic Information Systems (GIS), an essential tool in government and business. GIS uses spatial information and software to map, analyze, and model real world problems, in many fields such as forestry, homeland security, economics, cartography, city planning, and health. Labs include hands-on experience with ArcGIS software. Subjects are map making, GIS data creation and management, and map projections and coordinate systems. GIS mapping is a skill needed by many who work in both the public and private sector. This course will provide the skills and knowledge to create basic spatial data and GIS maps. It also lays the foundation for students who want to be employed as a GIS Technician or who want to pursue a degree or certificate and it prepares students for entry-level careers. This course is required for the GIS certificate and the AS degree. (FT) AA/AS; CSU.

### 111 Geographic Information Systems and Cartography

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Geographic Information Systems 110 with a grade of "C" or better, or equivalent.

This course is designed for students who possess a basic background in Geographic Information Systems (GIS). Learning in this course focuses on cartographic principles of map design, production, and evaluation through the application of

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hands-on activities using ArcGIS software. Topics covered include data acquisition methods used in map production (Global Positioning Systems/GPS, scanning, and georeferencing of data); spatial analysis techniques (using geoprocessing); and GIS project planning techniques. Cartographic tools and enhancements such as map layout, symbology, and labeling are emphasized. Students will apply project management skills to a class project. (FT) AA/AS; CSU.

### **112 Spatial Analysis with Geographic Information Systems**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* Geographic Information Systems 111 with a grade of "C" or better, or equivalent.  
*Advisory:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50. This course is a general survey of geographic information systems (GIS) concepts and spatial analysis techniques, particularly for raster data. Emphasis is placed on hands-on exercises using GIS software and on the functionality of GIS as an effective tool for modeling and analyzing complex spatial relationships. This course is intended for students earning a certificate or degree in GIS and/or for GIS professionals who wish to gain more experience with spatial analysis and raster data. (FT) AA/AS; CSU.

### **113 Advanced Geographic Information Systems Applications**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* Geographic Information Systems 112 with a grade of "C" or better, or equivalent.  
*Advisory:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50. This course introduces students to advanced topics, techniques, and applications of geographic information systems (GIS). Emphasis is placed on using advanced GIS software for advanced spatial analysis, visualization and statistics. Students use real-world data and apply one or more advanced applications to class project analyses to evaluate the effectiveness of GIS as a tool in the decision making process. Students gain knowledge of, and experience in using, advanced software applications. More advanced class projects may incorporate scripting and/or modeling. This course is intended

for students who have achieved an intermediate level of knowledge and experience in GIS. (FT) AA/AS; CSU.

### **114 Spatial Databases in Geographic Information Systems**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Geographic Information Systems 111 with a grade of "C" or better, or equivalent. GISG 114 focuses on the development and application of spatial database models and processing techniques. Students of Geographic Information Systems (GIS) who wish to gain exposure to emerging data structures and methods via problem-based learning benefit from this course. The course deals with conceptual issues in spatial database development, analysis, display, and designing and creating personal geodatabases. Students work with a variety of GIS data types and edit GIS data within the geodatabase environment, with emphasis on real-world applications. The class project focuses on the design, creation and use of a geodatabase to solve a problem. (FT) AA/AS; CSU.

### **130 Introduction to Remote Sensing**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Geographic Information Systems 111 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Geographic Information Systems 120.

This course introduces students to the basics of remote sensing, characteristics of remote sensors, and remote sensing applications in academic disciplines and professional industries. Emphasis is placed on image acquisition and data collection in the electromagnetic spectrum and data set manipulations. This course is designed for geographic information systems (GIS) students interested in imagery analysis. (FT) AA/AS; CSU.

### **131 Introduction to Digital Image Processing**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Geographic Information Systems 111 and 130, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Geographic Information Systems 121.

This course introduces students to concepts related to processing, analysis, enhancement, correction,



and interpretation of remotely sensed images. Emphasis is placed on photogrammetry, image acquisition, information extraction, scientific visualization and practical applications for geospatial professionals. This course is designed for geographic information systems (GIS) students interested in analysis of remotely sensed images. This course may be repeated up to three times with significant technology changes. (FT) AA/AS; CSU.

### 270 Work Experience

**Hours by Arrangement (One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work.), 1-4 units  
Grade Only**

A program of on-the-job learning experiences for students employed in a job related to their major or their educational goals. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability***

## Geography (GEOG)

### 101 Physical Geography

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course examines the major world patterns of the physical environment. The course covers the fundamental information and processes dealing with the earth's atmosphere, climate, landforms, natural vegetation, water, and soils, along with the appropriate use of maps and charts. This course is of interest to anyone seeking an understanding of the Earth's physical processes and mechanisms or Social Sciences majors. (FT) AA/AS; CSU; UC.

### 101L Physical Geography Laboratory

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Geography 101 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20.

This course requires practical observations and applications of the geographic grid, atlases and topographic maps, weather and climate, natural vegetation and soils, and landforms. Exercises are designed to supplement Physical Geography 101. (FT) AA/AS; CSU; UC.

### 102 Cultural Geography

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course is an introduction to thematic cultural geography. The elements covered include population, race, language, religion, settlement patterns, political organization, economic activities, industry, and the regional distribution of these elements. (FT) AA/AS; CSU; UC.

### 104 World Regional Geography

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

This course provides students with a survey of the physical, cultural, political, and economic characteristics of the world's major geographical regions. These regions include Europe, North America, Latin America, Africa, Australia, Oceania, and South, East, and Southeast Asia. The course focuses on historical, environmental, cultural, economic, and technological factors that impact the world's main geographical areas. (FT) AA/AS; CSU; UC.

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**154 Introduction to Urban Geography**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is a survey of urban geography. Emphasis is placed on the evolution, function and form of American and world cities. Topics include social, economic and technical forces that shape urban development and the role of urban planning in a variety of cities around the world. This course is designed for Social Sciences majors and all students interested in geography and urban planning. (FT) AA/AS; CSU; UC.

**290 Independent Study**  
**Hours by Arrangement, 1-3 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

For students who wish to study special problems. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 250. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Geology (GEOL)**

**100 General Geology**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5. This course investigates the physical characteristics of the earth as a whole, and the past, present, and future evolutionary processes affecting it. Primary topics include earth materials, geologic time, uniformitarianism, the fossil record, and plate tectonics. The course is designed for those students with a general interest in geology or earth science. (FT) AA/AS; CSU; UC.

**101 General Geology Laboratory**  
**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in Geology 100 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5. This laboratory course covers mineral and rock identification, landforms, topographic/geologic map interpretation, and geologic structures. The course is designed to supplement Geology 100 with laboratory experience. (FT) AA/AS; CSU; UC.

**104 Earth Science**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course investigates Earth's major physical systems, including the lithosphere, hydrosphere, and atmosphere, as well as Earth's place in the solar system. As such, this course provides a brief synthesis of pertinent topics in geology, physical geography, oceanography, meteorology, and astronomy. It is intended for those with a general interest in the Earth sciences and those wishing to satisfy requirements for a California Multiple Subject Teaching Credential. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**German (GERM)**

**101 First Course in German**  
**5 hours lecture, 5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

*Limitation on Enrollment:* This course is not open to students with previous credit for German 100. This is an introductory course designed to teach students to understand, speak, read and write

German, and become familiar with recent German culture and history. Emphasis is placed on learning the fundamentals of grammar, speaking in simple sentences using correct pronunciation, responding to questions regarding everyday life, and reading short selections about everyday activities. Fundamentals of oral and written grammar and a correct reading of simple German are practiced. This course is appropriate for students who are preparing to major in German as well as those who are interested in developing proficiency in the language. (FT) AA/AS; CSU; UC Transfer Limitation: Corresponds to two years of high school study.

### 102 Second Course in German

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* German 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for German 100.

This course is a continuation of German 101 and is designed to teach students to speak, read and write German at a low-intermediate level and enhance students' familiarity with recent German culture and history. Emphasis is placed on improving students' knowledge of fundamental grammar, reading more complex texts and speaking with moderate proficiency. This course is appropriate for students who plan to major in German as well as for those who are interested in developing proficiency with the language. (FT) Associate Degree Credit and transfer to CSU; UC.

### 201 Third Course in German

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* German 102 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for German 200.

This course is a continuation of the basic fundamentals of German pronunciation, grammar, composition and reading covered in German 102. Emphasis is placed on further developing listening, speaking, reading and writing skills through course content based on everyday life as well as German history and culture at the advanced-beginning level. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction***

***(296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Health Education (HEAL)

### 101 Health and Life-Style

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course studies aspects of mental, emotional, and physical health. Emphasis is placed on knowledge for development of attitude, understanding, and practice of a preventive life style for healthy living and optimal wellness. Specific instructional areas include chronic diseases, physical activity, nutrition, weight management, birth control methods, human sexuality, alcohol, tobacco and illicit chemical use, stress, and factors that contribute to wellness and longevity. Experience in personal health assessment and the changing of health behaviors is stressed. Satisfies State of California Health Education requirement for teaching credential. (FT) AA/AS; CSU; UC.

### 131 Emergency Response (First Aid/CPR/AED)

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is of interest to students who wish to earn the American Red Cross certifications necessary for employment as an emergency first responder. This class also satisfies the prerequisite requirement for students entering the Emergency Medical Technician (EMT) program or any educational program requiring a college level first aid class. This course follows the U.S. Department of Transportation First Responder National Standard Curriculum and meets Emergency Cardiovascular Care (ECC)

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Guidelines. Students successfully completing this course receive certifications in Emergency Response (valid for 3 years), CPR/AED for the Professional Rescuer (valid for 2 years), Bloodborne Pathogens and Administering Emergency Oxygen (each valid for 1 year). This course may be repeated to renew certifications. (FT) AA/AS; CSU; UC.

### 190 Health Education For Teachers 1 hour lecture, 1 unit Grade Only

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course overviews health-related issues and problems in the kindergarten through 12th grade. Topic areas include behavior modification, stress symptoms and management, physical activity, nutrition, cardiovascular disease, pregnancy and sexually transmitted diseases, illicit substance abuse, alcohol and nicotine use and misuse, violence and gang issues, school and home safety issues. This course satisfies the State of California Health Education requirement for the K-12 Teaching Credential. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Health Information Technology (HEIT)

### 110 Introduction to Health Information 4 hours lecture, 4 units Grade Only

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Health Information Technology 105.

This course for Health Information Technology students is an introduction to the profession. It includes an overview of the American healthcare delivery system and health care professions, health information department functions, ethical and legal issues in health information technology, healthcare reimbursement, quality management, performance

improvement, healthcare information systems and the implementation of electronic health records. (FT) AA/AS; CSU.

### 125 Basic Pharmacology for Allied Health 2 hours lecture, 2 units Grade Only

*Prerequisite:* Medical Assisting 110 with a grade of "C" or better, or equivalent.

This course is an introduction to pharmacology for Allied Health and other interested students and includes an historical overview of pharmacology. Also covered are basic pharmacologic terminology and concepts including drug forms, routes of administration, drug categories, and mechanisms of drug action. Generic and proprietary names are introduced for drugs prescribed for common diseases and disorders. (FT) AA/AS; CSU.

### 155A ICD Coding I 3 hours lecture, 3 hours lab, 4 units Grade Only

*Prerequisite:* Medical Assisting 55 and Medical Assisting 110 each with a grade of "C" or better, or equivalent and Medical Assisting 115 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This is the first of a two-course sequence for Health Information Technology students. It focuses on the International Classification of Diseases (ICD), the most commonly used classification system in the US for coding and reporting diagnostic inpatient and outpatient services and inpatient procedural services. Coding guidelines, conventions and reimbursement methodology are covered in this course. The student uses both the code books and computer software program. (FT) AA/AS; CSU.

### 155B ICD Coding II 3 hours lecture, 3 hours lab, 4 units Grade Only

*Prerequisite:* Health Information Technology 155A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is the second of a two-course sequence for Health Information Technology students. The emphasis is on advanced principles of International Classification of Diseases (ICD), the most commonly used classification system in the US for coding and reporting diagnostic inpatient and outpatient services and inpatient procedural services. Coding

guidelines, conventions and reimbursement methodology are also covered. Advanced principles include Diagnostic Related Group (DRG) case mix derivation, analysis of compliant coding, documentation improvement for correct code assignment, hospital acquired conditions, and present admission indicators that impact the code assignment and revenue cycle. The student uses both the code books and computer software program. (FT) AA/AS; CSU.

### **155C Current Procedural Terminology (CPT) Coding**

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Medical Assisting 110 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This introductory course for Health Information Technology students includes the use of Current Procedural Terminology (CPT) coding. The course covers the purpose of CPT, CPT Manual format, code format, and coding steps used to code from the six divisions of CPT: Evaluation & Management, Anesthesia, Surgery, Radiology, Pathology & Laboratory, and Medicine. In addition the course includes national and category III codes. It also includes an overview of reimbursement issues involving physician and hospital payment for outpatient services. This course is also available to hospital and doctors' office employees. (FT) AA/AS; CSU.

### **156 Hospital and Health Statistics**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Completion of or concurrent enrollment in: Mathematics 38 with a grade of "C" or better, or equivalent or Assessment Skill Level M30.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course provides instruction for the health information technology student in the basic principles of data collection and calculation of hospital and non-acute facility health statistics. Calculation of Health Information Management department statistics is included. In addition, the course covers the calculation of specific vital statistics as well as discharge analysis reporting.

There is instruction in the preparation of monthly and annual medical, administrative, and outside agency reports utilizing tables and graphs. Practice in the interpretation of statistical reports is also provided. (FT) AA/AS; CSU.

### **205 Health Law, Accreditation and Licensing Standards**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Health Information Technology 110 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course for health information technology students covers the legal aspects of health information management, including the American legal system and causes of medical malpractice. The State, Federal and other agency rules regarding record access, retention, release of information, processing subpoenas, and confidentiality are also included. The accreditation, licensing, and certification requirements for acute as well as non-acute health care facilities are included. (FT) AA/AS; CSU.

### **258 Quality Assessment, Utilization Review & Risk Management**

**3 hours lecture, 3 units  
Grade Only**

This course introduces the concepts of quality assessment (QA), utilization review (UR), and risk management (RM) in health care to the Health Information Technology student. Topics included are purpose, philosophy, historical development, analysis techniques, and program development strategies. Quality assessment activities in Medical Staff appointment/reappointment process are covered. Additional topics include physician confidentiality issues and key concepts in continuous quality improvement (CQI). (FT) AA/AS; CSU.

### **260 Principles of Supervision and Administration**

**3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to

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students with previous credit for Medical Record Technology 260.

This course for health information technology students introduces the basic concepts of personnel supervision, including role transition, recruitment, training, performance standards, discipline, and performance evaluation. Other topics include writing job descriptions and policy and procedure manuals. Budget management, department layout/design, meetings, management, stress and time management are also included. (FT) AA/AS; CSU.

### 261 Directed Clinical Practice A

**150 - hours other, 2 units  
Grade Only**

*Prerequisite:* Health Information Technology 110 and Medical Assisting 110, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course provides the first of two professional practice experiences for students enrolled in the Health Information Technology program. Students are assigned to a health information department in selected health care facilities. Students practice entry-level clerical skills such as patient admitting and discharge procedures and release of information. Experiences may also include exposure to dictation and transcription systems. Responsibilities of the student includes gaining general knowledge regarding the healthcare facility and the health information department's role in facility operations. AA/AS; CSU.

### 262 Directed Clinical Practice B

**150 - hours other, 2 units  
Grade Only**

*Prerequisite:* Health Information Technology 261 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course provides the first of two professional practice experiences for students enrolled in the Health Information Technology program. Students are assigned to a health information department in selected facilities. Students practice entry-level skills in areas, such as, coding and abstracting, data collection for statistical reports, personnel supervision, and department budget management, quality assessment, computer applications, and other activities as appropriate. AA/AS; CSU.

### 290 Independent Study

**Hours by Arrangement, 1-3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Provides for additional research, academic or clinical experiences for students with special interests. The course consists of individualized research problems, conferences with the instructor at prearranged intervals and a final written report on the work completed. This course may be taken four times with different content for a maximum of six units. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## History (HIST)

### 100 World History I

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course examines the growth of civilizations and the interrelationships of peoples of Europe, Asia, Africa and the Americas from the birth of civilization to 1650. Topics in social, intellectual, economic, and political history are covered. This course is of interest to history majors as well as anyone seeking a global historical perspective. (FT) AA/AS; CSU; UC.

### 101 World History II

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course examines the comparative history of the world's civilizations in Africa, the Americas, Asia, and Europe from the dawn of the modern era (1600) to the present. Topics in social, intellectual, economic, and political history are covered. This course is of

interest to history majors as well as anyone seeking a global historical perspective. (FT) AA/AS; CSU; UC.

**105 Introduction to Western Civilization I**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an historical survey of Western Civilization from the early human communities through early modernism. The course is designed to further students' general education by introducing the ideas, attitudes, and institutions basic to Western Civilization. It may be of interest to history majors as well as any student seeking a broad historical perspective. (FT) AA/AS; CSU; UC.

**106 Introduction to Western Civilization II**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an historical survey of Western Civilization from early modernism to the present. The course is designed to further students' general education by introducing the ideas, attitudes, and institutions basic to Western Civilization. It may be of interest to history majors as well as any student seeking a broad historical perspective. (FT) AA/AS; CSU; UC.

**109 History of the United States I**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course, which covers the history of the United States from its colonial origins through the period of Reconstruction, provides an overview of the diverse peoples who interacted, settled, and influenced the history of the nation and its developing economic, social, and political institutions. The course requires students to analyze a variety of materials, think critically, and write thesis-based essays. History 109 taken in conjunction with History 110, 115B, 123, 142, 151; Black Studies 140B; Chicano Studies 141B; or Political Science 102 satisfies the District and may satisfy the CSU graduation requirements in United States History, Constitution, and American Institutions and the requirement in California state

and local government. AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150-151, Black Studies (BLAS) 140A-140B, and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

**110 History of the United States II**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course, which covers the history of the United States from Reconstruction to the present, provides an overview of the diverse peoples who influenced the history of the nation and its maturing economic, social, and political institutions. The course requires students to analyze a variety of materials, think critically, and write thesis-based essays. History 110 taken in conjunction with History 109, 115A, 141, 150; Black Studies 140A; or Chicano Studies 141A satisfies the District and may satisfy CSU requirements in United States History, Constitution, and American Institutions and the requirement in California state and local government. History 110 also satisfies the District and CSU requirements in California state and local government for those students who have completed equivalent United States history, Constitution, and American Ideals courses outside the State of California. AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150-151, Black Studies (BLAS) 140A-140B and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

**115A History of the Americas I**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a history of the Americas from 1500 through 1870. Emphasis is placed on a comparison of the cultural forms, political institutions, social relations, and economic structures that resulted from the interactions among people of different socially defined cultures, races, ethnicities, and social classes. Topics include the emergence of the independence movements in the Americas, political conflict and

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civil war in the newly independent countries, and the consolidation of stable nation states by 1870. The United States Constitution and subsequent political institutions in the United States are compared to the other newly independent countries in the Americas. This course is designed for all students interested in the history of the Americas. (FT) AA/AS; CSU; UC.

### 115B History of the Americas II

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a history of the Americas from 1865 to the present. Emphasis is placed on the application of classical liberalism during the late nineteenth century, construction of corporatist states during the mid-twentieth century, and the advent of neo-liberalism in the late twentieth century. Topics include the development of the California State Constitution, the expansion of commerce, and international relations among nations in the Western Hemisphere. This course is designed for all students interested in the history of the Americas. (FT) AA/AS; CSU; UC.

### 120 Introduction to Asian Civilizations

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. This course examines the social, cultural, and political evolution of distinct civilizations in East, South, and Southeast Asia from prehistory to the end of the sixteenth century. Emphasis is placed on topics such as the development of indigenous religions/philosophies, the rise and decline of regional kingdoms/dynasties, cultural achievements, and gender roles. This course is intended for transfer students planning to major in history, business, or other social science. (FT) AA/AS; CSU; UC.

### 121 Asian Civilizations in Modern Times

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. This course examines the evolution of the distinct cultures, thought, and institutions in East, South, and Southeast Asia from the sixteenth century to the present through critical investigations into

the impact of modernization on the political, social, economic, and cultural dimensions of these societies. Emphasis is placed on topics such as the first encounters with Western powers, the evolution of Western imperialism, the rise of nationalist movements and independent nation states, and their evolution and progress to the present. (FT) AA/AS; CSU; UC.

### 123 U.S. History from the Asian Pacific American Perspective

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. *Limitation on Enrollment:* This course is not open to students with previous credit in Black Studies 112 or 140 or History 110 and 110B. This course is a review of Asian Pacific Americans in the social, political, economic and cultural development of the United States from Reconstruction to the present. The emphasis is on the Chinese, Japanese, Korean, Filipino, Vietnamese, Cambodian, Lao, Hmong, and Hawaiian experiences. This course presents American history as it relates to the experience of Asian immigrants and Asian Pacific Americans. History 123 taken in conjunction with History 109, 115A, 141, 150; Black Studies 140A; or Chicano Studies 141A satisfies the District and CSU American Institutions/California Government requirements. (FT) AA/AS; CSU; UC.

### 130 The Modern Middle East

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is a survey of modern Middle Eastern history from the Nineteenth Century to the present. Emphasis is placed on analyzing modern Middle Eastern historical events and processes within a global context. Topics include the historical development and role of Islam in the region, the 'decline' and dismemberment of the Ottoman Empire, imperialism, Arab independence movements, the Israeli-Palestinian conflict, the resurgence of Islam and the role of the United States in the region. This course is intended for history majors and all students interested in the contemporary Middle East. (FT) AA/AS; CSU; UC.



**131 Latin America Before Independence**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a history of Latin America and the Caribbean, 1492-1810. It opens with a discussion of the pre-Encounter world and then delves into topics such as social relations, the Church's role in colonization, and resistance to colonization and slavery. Throughout the course, references are made to Latin America's and the Caribbean's roles in the emergence of a modern, global social-economic system. This course is designed for all students interested in the history of Latin America and the Caribbean. (FT) AA/AS; CSU; UC.

**132 Latin America Since Independence**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a history of Latin America since 1810. Lectures and discussions include issues pertinent to Latin America's past and present such as modernization, social movements, political conflicts including revolutions, and race and gender relations. Throughout the course, modern Latin American history is placed in the context of global economic, ideological, and cultural trends. This course is designed for all students interested in the history of modern Latin America and the Caribbean. (FT) AA/AS; CSU; UC.

**141 Women in United States History I**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. This course, which covers the history of the United States from its colonial origins through the period of Reconstruction, provides a special emphasis on the history and role of women, who in their diverse contributions influenced the history of the nation and its developing economic, social, and political institutions. The course requires students to analyze a variety of materials, think critically, and write thesis-based essays. This course may be of interest to students interested in Women's Studies. History 141 taken in conjunction with History 142, 110, 115B, 123, 151; Black Studies 140B; Chicano Studies 141B; or Political Science 102 satisfies the District and

CSU American Institutions/California Governments requirements. (FT) AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150-151, Black Studies (BLAS) 140A-140B, and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

**142 Women in United States History II**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. This course, which covers the history of the United States from Reconstruction to the present, provides an overview of the diverse peoples who influenced the history of the nation and its maturing economic, social and political institutions, with a special emphasis on the history and role of women. This course requires students to analyze a variety of materials, think critically, and write thesis-based essays. This course may be of interest to students interested in Women's Studies. History 142 taken in conjunction with History 141, 109, 115A, 150; Black Studies 140A; or Chicano Studies 141A satisfies the District and CSU American Institutions/California Government requirements. (FT) AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150-151, Black Studies (BLAS) 140A-140B, and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

**150 Native Americans in United States History**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. This course covers the history of the United States from the Pre-contact Colonial Period to the mid-nineteenth century, with an emphasis on the history of Native American Indians, the development of United States Indian policy, and the interaction of divergent cultures. This course requires students to analyze a variety of materials, think critically, and develop thesis-based essays. History 150 taken in conjunction with History 151, 110, 115B, 123, 142;

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Black Studies 140B; Chicano Studies 141B; or Political Science 102 satisfies the District and CSU American Institutions/California Governments requirements. (FT) AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150-151, Black Studies (BLAS) 140A-140B, and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

### **151 Native Americans in United States History**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course covers the history of the United States from the Civil War to the present, with an emphasis on the history of Native American Indians, changing United States Indian policy, and the interaction of divergent cultures. This course requires students to analyze a variety of materials, think critically, and write thesis-based essays. History 151 taken in conjunction with HIST 150, 109, 115A, 141, BLAS 140A, or CHIC 141A, satisfies the District and CSU graduation requirements in United States History, Constitution, and American Institutions, and the requirement in California state and local government. This course also fulfills the District's multicultural requirement. (FT) AA/AS; CSU; UC Transfer Limitation: History (HIST) 109-110, 141-142, 150-151, Black Studies (BLAS) 140A-140B, and/or Chicano Studies (CHIC) 141A-141B combined: maximum credit, one series.

### **154 Ancient Egypt**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This general education course provides a study of the geography, history, life, society, religion, art, archaeology, language, architecture, literature, diplomacy and economics of ancient Egypt from the first dynasties to the Roman occupation. It is appropriate for students with a general interest in the ancient world. (FT) AA/AS; CSU; UC.

### **175 California History**

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course, which covers the history of California from its earliest times to the present, provides an overview of both the physical characteristics and the diverse peoples of California and how they interacted and influenced the history of this state and its economic, social, cultural, and political institutions. The course requires students to analyze a variety of materials, think critically, and write thesis-based essays. This course may be of special interest to students planning a career in education. History 175 satisfies the California government requirement for students who have completed their American Institutions requirement with courses from outside the State of California. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability***

## **Hospitality (HOSP)**

### **101 Introduction to Hospitality & Tourism**

**3 hours lecture, 3 units**

**Grade Only**

*Advisory:* English 42 and English 43 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4, W4 and M20.

This introductory course addresses a general overview and analyses of linkages between segments of the hospitality industry, including: history, career opportunities and service ethics, lodging products and service levels, travel and tourism, food and beverage throughout the industry segments, managed services, clubs, casinos, leisure and recreation, convention centers and meeting and event planning. The course touches on concerns related to health, safety, liability, the environment, technology, and globalization that are interrelated with the hospitality industry. Exploration of all aspects of the multifaceted hospitality and tourism

industries are emphasized, including trends future projection and employment opportunities. This overview course is designed for students interested in the hospitality industry. (FT) AA/AS; CSU.

**102 Hospitality Financial Reporting**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and M20.

This course is designed to provide students with an understanding of the principles of finance and accounting and to comprehend the money implications of decisions in hospitality. Because many of the measures of success and failure in the hospitality business are expressed in financial terms, this course covers the aspects of finance and accounting that will be met by a non-financial hospitality employee. Basic relevant financial concepts and financial tools are introduced to improve business decision making including: how to read balance sheets, income statements, profit and loss, and cash flow statements, critical ratios and other financial measurements and to interpret what the numbers mean. This course is intended for all Event Management, Hotel Management, and Culinary Arts / Culinary Management students. (FT) AA/AS; CSU.

**110 Lodging Management & Operations**  
**3 hours lecture, 3 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Hospitality 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Hotel Management 110.

This overview of the management responsibilities of hotel operations is designed for students interested in the hospitality industry. The focus is on analysis and understanding of the interdependent nature of major departments within a hotel/resort operation: rooms division, food and beverage, sales and marketing, housekeeping and maintenance, and general and administrative. Analyses of the interrelationship between the major departments are examined through the concepts of organizing, planning, communicating, and ethical principles among the major departments of a lodging operation Job titles, functions, and their interactive relationships that are of utmost importance in

understanding and working productively with the complexities of modern hotel management are discussed. (FT) AA/AS; CSU.

**111 Food and Beverage Management**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

*Advisory:* Completion of or concurrent enrollment in: Mathematics 34A with a grade of "C" or better, or equivalent, or Assessment Skill Level M20; and Hospitality 101 and 102, each with a grade of "C" or better, or equivalent.

This course is designed to provide students with an understanding of the hospitality food service industry, its variety of operations/outlets and how to gain the skills to successfully manage these operations/outlets. Areas of study include an overview of food and beverage outlets, food service marketing, menu analysis, menu cost and pricing strategies. Analyze service standard operating procedures, types of service, food and beverage sourcing, beverage management. Identify sanitation and safety issues and facility design and equipment, food service competitive trends, food service automation, and develop financial acumen. This course is intended for all Event Management, Hotel Management, and Culinary Arts / Culinary Management students. (FT) AA/AS; CSU.

**115 Strategic Leadership in Hospitality**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Food Service Occupations 115.

This course is designed to acquaint students with the leadership, management, supervision and quality issues facing today's hospitality industry. It covers the organization and management of hospitality operations. This course is designed for students who are interested in hospitality and culinary arts/ culinary management, as well as those working toward American Culinary Federation certification and recertification. The course is a requirement for

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students seeking the DSS certification. (FT) AA/AS; CSU.

**120 Event & Hospitality Sales & Marketing**  
**3 hours lecture, 3 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Hospitality 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Hotel-Motel Management 120.

This course is designed to provide students with a background in marketing and sales, as they relate to the major decisions hospitality marketers face in balancing objectives and resources against the needs and opportunities in the global marketplace. Primary focus is on the creation of a marketing plan including: the marketing environment, market segments and target markets, and marketing strategies. This course is for students in hospitality and tourism or those interested in the area. (FT) AA/AS; CSU.

**130 Event & Hospitality Law**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Hospitality 101 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: Hotel-Motel Management 110 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Hotel-Motel Management 115.

This course introduces the student to the laws and regulations that influence business and management decisions applicable to the ownership and operation hospitality and tourism businesses. It is designed to provide practical knowledge of the law and how the legal system functions. The course focus is on legal fundamentals including negligence, relationships with guests, employees, contracts, liability, and the sale of food and alcohol. This course is designed for students interested in a career in hospitality and tourism or those interested in the area. (FT) AA/AS; CSU.

**140 Club Management**  
**1 hour lecture, 1 unit**  
**Grade Only**

*Prerequisite:* Hospitality 101 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: Hotel-Motel Management 110 and Culinary Arts/Culinary Management 140, each with a grade of "C" or better, or equivalent.

This course introduces students to club management in the various types of clubs and club sectors.

Concepts covered include the club boards of directors, service excellence, leadership, quality management systems, strategic and financial management, club marketing, human resources, guest rooms, food and beverage operations, and computer systems. This course is for students interested in hotel, hospitality and tourism. (FT) AA/AS; CSU.

**150 Hospitality Human Resources**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W5 and M20.

*Advisory:* Completion of or concurrent enrollment in: Hospitality 101 and 115, each with a grade of "C" or better, or equivalent.

This course presents a systematic approach to human resources management in the hospitality industry. Students develop theoretic lenses for understanding people and organizations, and practical tools for accomplishing personal and organizational goals. Topics include: individual differences, conflict management, problem solving, power and influence, motivation, leadership, coaching and counseling, and group process. Students learn through the case method, self-assessments, experiential exercises, readings, discussions, papers, and group activities.

Contemporary issues and practices and employment laws that have an impact on the way people are managed are analyzed. This course is designed for students interested in a career in hospitality and tourism or those interested in the area. (FT) AA/AS; CSU.

**151 Resort Management**  
**2 hours lecture, 2 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Hospitality 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Hotel Management 150 or 151.

This course highlights the operation and management of resort properties. Details are presented in planning, development, financial investment management, and marketing that deal with the unique nature of resort business. Analysis of management systems and methods for development of full-service resorts are presented, along with comparison of specialized requirements for different types of resorts based on location, climate, activities, and life-style. This course is for students interested in hotel, hospitality and tourism. (FT) AA/AS; CSU.

**160 Meeting and Convention Management**  
**3 hours lecture, 3 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Hospitality 101 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: Hospitality 120 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Travel and Tourism 132 or Tourism 120.

This introductory course provides the student with an interest in planning events such as meetings, conferences and conventions with the parameters of that segment of the tourism industry. Students are introduced to the differences between meetings and conventions, the employees involved in those venues and the steps that are to be taken to plan, organize and produce such activities as meetings, seminars, conventions and trade shows. The course is for those with an interest in tourism and in organizing and coordinating meetings, conventions, events and tours. (FT) AA/AS; CSU.

**165 Special Event Management**  
**3 hours lecture, 3 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Hospitality 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Tourism 125.

This course covers the theoretical and practical foundation for event management. Emphasis is placed on research, design, planning, coordination, budgeting and evaluation of events. Topics include competencies required for successful events, including parades, festivals, sporting and other special events. This course is designed for students

pursuing a career in hospitality, tourism or event management. (FT) AA/AS; CSU.

**170 Event Promotion & Sponsorship**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Hospitality 101 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: HOSP 120 and 160 and 165, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Tourism 135.

This course examines how to promote events and use events to endorse products, services and causes. Specifics covered include image, branding, advertising, publicity, and public relations, their importance to an event, the benefits and best practices of each. Also covered are the coordinating methods to secure sponsorship contracts. This course is designed for students interested in a career in hospitality and tourism or those interested in the area. (FT) AA/AS; CSU.

**175 Event Convention Service & Catering Management**  
**2 hours lecture, 2 units**  
**Grade Only**

*Prerequisite:* Hospitality 101 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: Hospitality 105 and 160 and 165, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Tourism 130.

This course focuses on reaching and servicing the group meetings and events market. The process of selling space, functions and events to groups, and the methods for servicing group business after the sale are outlined. Also identified are methods to market an event business, track and contain costs, and measures for operational effectiveness and efficient work schedules. Catering management from a front-of-the-house perspective is presented, as is theme development with specifics in design and décor. This course is for students interested in a career in hospitality and tourism or those interested in the area. (FT) AA/AS; CSU.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

**185 Event & Meeting Facilities Management**  
**2 hours lecture, 2 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Hospitality 160 or 165, with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Tourism 140 or Hospitality 180.

This course introduces students to the operations of arenas, stadiums, convention centers, performing arts centers, and amphitheaters. It incorporates logistical considerations of booking events, contract negotiations, ticket sales, maintenance and production. Also examined are management techniques of hospitality facilities to get better value from physical assets to improve business productivity. This course is designed for students interested in a career in hospitality and tourism or those interested in the area. (FT) AA/AS; CSU.

**186 The Business of Social Events & Wedding Consulting**

**2 hours lecture, 2 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Hospitality 160 or 165, with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Tourism 141 or Hospitality 181.

The course provides students with the knowledge and skills needed to operate a business related to social events and wedding consulting. Emphasis is placed on setting up and running an event consulting business, financial management for the business and the client, guidelines for working with clients, selecting vendors and venues, developing professional relationships, timelines and planning schedules. Events covered include: birthdays, anniversaries, bar and bat mitzvahs, quinceaneras, family reunions, showers, sweet sixteen, bachelor(ette) parties and custom designed celebrations. This course is designed for students specializing in the social events or weddings segment of the events industry management. (FT) AA/AS; CSU.

**201 Hotel Management Simulations**  
**3 hours lab, 1 unit**  
**Grade Only**

*Prerequisite:* Hospitality 102, 110, 111, 115 and 120, each with a grade of "C" or better, or equivalent; and

Computer Business Technology 140 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Hotel Management 201.

This course utilizes knowledge of rooms management, the lodging cycle, marketing, sales, human resources, food and beverage cost control and yield management to provide the ability to make managerial decisions doing a major case study in a computer-simulated environment. The input of data into the computer allows students to test decision-making skills in a highly realistic environment. Students evaluate broad ranges of accumulated learning by running a business within a safe accelerated environment. This class culminates the hotel management curriculum and is intended for students to utilize knowledge gained from all previous hotel and hospitality courses. (FT) AA/AS; CSU.

**Humanities (HUMA)**

**101 Introduction to the Humanities I**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This interdisciplinary course develops students' understanding and appreciation of humankind's cultural heritage from the earliest time to approximately 1400. A survey is made of the literature, philosophy, music, painting, architecture, and sculpture of both Western and non-Western civilizations. (FT) AA/AS; CSU; UC.

**102 Introduction to the Humanities II**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This interdisciplinary course is designed for students interested in meeting general education requirements in humanities. The course develops students' understanding and appreciation of humankind's cultural heritage from approximately 1400CE to the present time. A survey is made of the literature, philosophy, music, painting, architecture, and sculpture of both Western and non-Western civilization. (FT) AA/AS; CSU; UC.

**HUMANTIES-RELIGIOUS STUDIES (HUMA)****103 Introduction to the New Testament****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course provides an introduction to the history and culture of the New Testament period (First Century C.E.), methods of critical analysis of Biblical materials, and the content of the New Testament. It also examines the impact of the New Testament on western culture. This course may be of interest to students of history, literature, anthropology or those with a general interest in biblical studies. (FT) AA/AS; CSU; UC.

**104 Introduction to the Old Testament****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 49 with a grade of "C" or better, or equivalent, or Assessment Skill Level W5. This course is an introduction to the texts and development of the Old Testament (Hebrew Bible) through a critical reading of its writings, taking into account its relevant history, cultural influences, the original language, and the important events, personages/characters, ideas, and beliefs of ancient Israel. Also addressed are the contributions of other disciplines to a critical understanding of Hebrew Scriptures, including archaeology, literature, history, current Biblical scholarship and criticism, and women's studies. This course may be of particular interest to students in literature, anthropology, and other such disciplines. AA/AS; CSU; UC.

**106 World Religions****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is an introduction to the basic elements of the religions of the world, their similarities and differences, and their impact on believers and society. The course includes a study of the historical development, doctrines, rituals, sects, and scriptures of the major religions of the world. Some analysis of ancient religious traditions and tribal religious beliefs and practices may be included. This course is intended for all students interested in humanities and the study of world religions. (FT) AA/AS; CSU; UC.

**HUMANITIES-INTERDISCIPLINARY (HUMA)***(Related courses: Speech 180 and Music 125.)***201 Mythology****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. This course introduces students to the major images and themes of the myths of widely separated peoples of the world throughout history. By analyzing various archetypal patterns found in the great civilizations and tribal cultures of the world, students understand both the uniqueness of each culture's world view and the commonality of human mythological conceptions. Literature and the arts are used to demonstrate these cultures' mythic ideas. This course meets GE and CSU requirements. (FT) AA/AS; CSU; UC.

**205 Exploring Human Values Through Film****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. This course is an introduction to the Humanities through the study of film. Emphasis is placed on thematic and technical analysis of feature films. Topics include philosophic meaning, moral development, and social responsibility. This course is designed for Humanities majors and students interested in film and its expression of humanistic values. (FT) AA/AS; CSU; UC.

**290 Independent Study****Hours by Arrangement, 1-3 units****Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration. For students who evidence ability and interest in pursuing special studies in Humanities. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Interior Design (INTE)

### 101 Introduction to Interior Design

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is a survey of the profession of interior design. Emphasis is placed on design fundamentals and the profession of interior design. Topics include space planning, construction systems, furniture, and finishes. This course is designed for interior design majors and all students interested in the field. (FT) AA/AS; CSU.

### 105 Residential Design

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Interior Design 101, 112A and 115, each with a grade of "C" or better, or equivalent.

*Advisory:* English 48, English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5, W5 and M30.

This course introduces interior design students to the planning of residential interiors. Emphasis is placed on the interrelationship of interior elements, principles, space planning, and conceptual problem solving in three-dimensional space. This course is designed for those students planning to major in the field as well as for those students interested in interior design. (FT) AA/AS; CSU.

### 110 Materials and Resources

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Interior Design 101, 112A and 115 each with a grade of "C" or better, or equivalent.

*Advisory:* English 48, English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5, W5 and M20.

This course is a study of the technical specification

of finishes, furnishings, and equipment needed to complete a variety of interior environments. Emphasis is placed on sustainability. Product knowledge, available resources, industry procedures, and terminology are incorporated. Liabilities and regulations as they pertain to the professional interior designer are covered. Finishes, furnishings, and equipment are estimated and specified, and are graphically designated on drafted plans and elevations. This course is designed for those students planning to major in this field as well as for students interested in interior design. (FT) AA/AS; CSU.

### 112A Drafting for Interiors

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and Mathematics 38 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and M30.

This course introduces tools and techniques necessary for interior architectural drafting. Emphasis is on drafting plans, elevations, and sections. Topics include line quality, measuring techniques, scale problems, use of architectural graphic standards, and dimensioning. This course is designed for those students planning to major in this field as well as for students interested in interior design. (FT) AA/AS; CSU.

### 112B Perspective Drawing for Interiors

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Interior Design 112A with a grade of "C" or better, or equivalent.

*Advisory:* English 48, Mathematics 84 and Mathematics 96 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and M50.

This course is a study of advanced drafting and drawing techniques. Emphasis is placed on projections from construction drawings, location sketches, and photographs used to create orthographic, paraline, and one and two-point perspective drawings. Quick sketch drawings are incorporated. This course is designed for Interior Design majors. (FT) AA/AS; CSU.

### 115 Elements and Principles of Interior Design

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 48, English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5, W5 and M30.



This course introduces students to the elements and principles of interior design. Emphasis is placed on the analysis of interior environments two and three dimensionally. This course includes the creation of two and three dimensional (2D and 3D) design projects illustrating the elements and principles of interior design such as scale and proportion, balance, color and light. This course is intended for interior design students. (FT) AA/AS; CSU.

### 125 History of Decorative Arts

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels W6 and R6. This course surveys the decorative arts from all parts of the world from the ancient past to today's modern interiors. Emphasis is placed on major developments in decorative arts and how they relate to the social, cultural, and economic events of each historical period. This course is designed for interior design majors and any student interested in the history of decorative arts. (FT) AA/AS; CSU.

### 130 Interior Design Professional Practice

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Interior Design 105 with a grade of "C" or better, or equivalent.  
*Advisory:* English 101 and Mathematics 34A each with a grade of "C" or better, or equivalent or Assessment Skill Levels W6, R6 and M20. This course is a study of the business and management of a professional interior design practice. Emphasis is placed on client/designer communication, phases of design, project management, legal issues, business practices, marketing, and project presentation. This course is intended for Interior Design majors. (FT) AA/AS; CSU.

### 145 Contemporary Housing

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Interior Design 101 and 112A, each with a grade of "C" or better, or equivalent.  
*Advisory:* English 101 and Mathematics 38, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R6, W6 and M30. This course is a survey of basic structural systems of modern buildings. Emphasis is placed on sustainable materials and methods of construction as they relate to interior design projects. This course also explores the legal, social, and economic forces that

affect housing design and provides an overview of the technical aspects of basic building systems as they relate to design and the building industry. This course is designed for students majoring in interior design. (FT) AA/AS; CSU.

### 200 Advanced Residential Design: Kitchens and Baths

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Interior Design 105, 110 and 145 each with a grade of "C" or better, or equivalent. This course is a study of advanced approaches to kitchen and bath design. Emphasis is placed on the application of National Kitchen and Bath Association (NKBA) Planning Guidelines and NKBA Access Planning Guidelines to universal design projects. Topics include identifying project needs, materials selection, space planning, and contract documents. This course is appropriate for interior design students specializing in kitchen and bath design. (FT) AA/AS; CSU.

### 205 Non-Residential Space Planning

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Interior Design 105 and 110, each with a grade of "C" or better, or equivalent.  
*Advisory:* English 48 and Mathematics 38, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and M30. This course is a design studio that introduces non-residential interior space planning and design. Emphasis is placed on the design process, building codes, and furniture placement as they relate to space planning and construction drawing preparation. This course is intended for students majoring in Interior Design. (FT) AA/AS; CSU.

### 210 Presentation and Color Rendering

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Interior Design 105 and 112B, each with a grade of "C" or better, or equivalent.  
*Advisory:* English 48 and Mathematics 34A, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and M20.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

This course is a hands-on study of color rendering techniques, presentation methods and portfolio development. Students use quick sketching methods and color to communicate design solutions. Students render floor plans, perspectives, and interior furnishings. This course is intended for students majoring in Interior Design. (FT) AA/AS; CSU.

**215 Environmental Lighting Design**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Interior Design 105 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and Mathematics 38, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and M30.

This course is a study of lighting for interiors. Emphasis is placed on developing and creating environmentally effective and aesthetically pleasing lighting design solutions for both commercial and residential applications. This course is intended for students majoring in Interior Design. (FT) AA/AS; CSU.

**270 Work Experience**  
**Hours by Arrangement (One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work.), 1-4 units**  
**Grade Only**

A program of on-the-job learning experiences for students employed in a job related to their major or their educational goals. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Italian (ITAL)**

**101 First Course in Italian**  
**5 hours lecture, 5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Italian 100. This is the first course in the sequence of study of the Italian language and culture. In this interactive course, students use Italian in speaking, listening, reading, and writing at the novice level. Basic language structures and vocabulary for communication are examined and explored in Italian. Students with two years of high school Italian are eligible to enroll in Italian 101. (FT) AA/AS; CSU; UC Transfer Limitation: Corresponds to two years of high school study.

**102 Second Course in Italian**  
**5 hours lecture, 5 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Italian 101 with a grade of "C" or better, or equivalent. Students with two years of high school Italian are eligible to enroll in this course.

*Advisory:* concurrent enrollment in Italian 296.

*Limitation on Enrollment:* This course is not open to students with previous credit for Italian 100. This is a continuation of Italian 101. In this interactive course, students use listening, reading, speaking and writing at a more complex level. The students further develop their receptive and productive language competencies at the low- to mid- intermediate level. Additional language structures and vocabulary for communication are examined and explored in Italian. (FT) AA/AS; CSU; UC.

**201 Third Course in Italian**  
**5 hours lecture, 5 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Italian 102 with a grade of "C" or better, or equivalent or three years of high school Italian or equivalent.

*Advisory:* Concurrent enrollment in Italian 296 with a grade of "C" or better, or equivalent.

This is an intermediate course in Italian. In this interactive course, students use the language through speaking, listening, reading and writing at the intermediate level. More complex language structures and vocabulary for communication are examined and explored through cultural material. This course is intended for students interested in continuing the study of Italian. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on***

page 256. Please refer to the class schedule and/or see the dean or department chair for availability.

## Japanese (JAPN)

### 101 First Course in Japanese

5 hours lecture, 5 units

Letter Grade or Pass/No Pass Option

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This is an entry-level course designed to introduce students to the Japanese language and cultures of Japan. In this interactive course, students learn and use the language by speaking, listening, reading, and writing at the novice level. Basic language structures and vocabulary for communication are examined and explored in Japanese. (FT) AA/AS; CSU; UC  
Transfer Limitation: Corresponds to two years of high school study.

### 102 Second Course in Japanese

5 hours lecture, 5 units

Letter Grade or Pass/No Pass Option

*Prerequisite:* Japanese 101 with a grade of "C" or better, or equivalent, or two years of high school Japanese.

This course is a continuation of Japanese at the novice high level. Students use listening, reading and writing skills at an increasingly complex level. This course utilizes an interactive approach to expand students' use of language structures and vocabulary in Japanese. This course is intended for students who have completed the first semester of Japanese. (FT) AA/AS; CSU; UC.

### 201 Third Course in Japanese

5 hours lecture, 5 units

Letter Grade or Pass/No Pass Option

*Prerequisite:* Japanese 102 with a grade of "C" or better, or equivalent, or three years of high school Japanese.

This is the third course in the Japanese language sequence. In this interactive course, students listen, speak, read and write in Japanese at the intermediate level. This course is intended for students who have completed the first two courses in the Japanese language sequence. (FT) AA/AS; CSU; UC.

### 202 Fourth Course in Japanese

5 hours lecture, 5 units

Letter Grade or Pass/No Pass Option

*Prerequisite:* Japanese 201 with a grade of "C" or better, or equivalent, or four years of high school Japanese.

This is the fourth course in the Japanese language sequence. In this interactive course, students speak, listen, read and write at the advanced-intermediate level. Students are expected to read and evaluate authentic Japanese literary and cultural materials. This course is intended for students who have completed the first three courses in the Japanese language sequence. (FT) AA/AS; CSU; UC.

### 210 Conversation and Composition in Japanese I

3 hours lecture, 3 units

Letter Grade or Pass/No Pass Option

*Prerequisite:* Japanese 102 with a grade of "C" or better, or equivalent.

This is an interactive course in Japanese conversation and composition at the intermediate level. In this course, students are encouraged to express themselves creatively both orally and in writing as they explore a variety of topics in Japanese. This course is intended for students who have completed the first two courses in the Japanese language sequence. (FT) AA/AS; CSU; UC.

### 211 Conversation and Composition in Japanese II

3 hours lecture, 3 units

Letter Grade or Pass/No Pass Option

*Prerequisite:* Japanese 210 with a grade of "C" or better, or equivalent.

This is an interactive course in Japanese conversation and composition at the intermediate-advanced level. In this course, students are encouraged to express themselves creatively both orally and in writing as they explore a variety of topics in Japanese at an intermediate-advanced level. This course is a continuation of JAPN 210, intended for students who want to further enhance their skills in Japanese. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised***

AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable

**Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.**

## Journalism (JOUR)

### 200 Introduction to Newswriting and Reporting

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; or English 105 with a grade of "C" or better, or equivalent.

This course serves as preparation for the major for students preparing to transfer and is also intended to serve as an elective for students interested in learning to write for newspapers and other publications. The course is an introduction to evaluating, gathering, and writing news in accepted journalistic style under newsroom conditions. Topics include the role of the reporter and the legal and ethical issues related to reporting. Students have writing and reporting experiences, including personal interviews, speech, meeting and other event coverage, deadline writing, and use of AP style. (FT) AA/AS; CSU.

### 201 Advanced Newswriting and Reporting

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Journalism 200 with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; English 105 with a grade of "C" or better, or equivalent.

This course offers instruction in advanced journalistic practices. Emphasis is placed on feature, magazine and opinion writing, including investigative and multicultural reporting. Topics also include legal and ethical issues related to reporting. Principles learned can apply to print and online journalism. The course serves as preparation for the major for students preparing to transfer, and is also intended to serve as an elective for students interested in learning to write for newspapers and other publications, including the campus newspaper. (FT) AA/AS; CSU.

### 202 Introduction to Mass Communication

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

*Limitation on Enrollment:* This course is not open to students with previous credit for Radio and Television 200.

This course provides a survey of mass communication and the interrelationships of media with society, including history, structure, and trends. Discussion focuses on analysis of the impact of the media on society and culture as well as on ways that social institutions shape the media. Problems and issues are examined in light of social and cultural constructs, economics, technology, law and ethics, and social issues, including gender and cultural diversity. This course is designed for transfer students in the social sciences, for journalism majors, and any student interested in how society and mass media are interrelated. (FT) AA/AS; CSU; UC.

### 205 Editing for Print Journalism

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Journalism 200 with a grade of "C" or better, or equivalent.

This course offers instruction in editing techniques for news publications. Course content covers publication planning, copy editing, headline writing, use of photos and graphics, layout and design, advertising sales and design, news judgment and editorial leadership. Principles learned apply to print and online journalism. The course serves as preparation in the journalism major for students preparing to transfer. It also serves as an elective for students interested in learning to write for newspapers and other publications, including the campus newspaper. (FT) AA/AS; CSU.

### 206 Online Journalism

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, each with a grade of "C" or better or Assessment Skill Levels R6 and W6; Computer Business Technology 161 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in Radio and Television 151 or 157, each with a grade of "C" or better, or equivalent.

This course provides a basic examination of current online news trends and multimedia reporting techniques. The course covers skills necessary to

produce basic multimedia reports, audio slide shows, and blogs. The course also provides instruction in ethical, legal and social issues affecting online journalists, as well as an exploration of online audiences. The course is intended for journalism majors or those seeking career development. (FT) AA/AS; CSU.

### **210A Newspaper Production**

**6-9 hours lab, 2-3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is designed to provide experience in the production and publication of a student newspaper. Emphasis is placed on helping beginning students gain experience in the gathering and writing of news and features. Students at this level learn the basic principles of reporting, news writing, copy editing, photography, and newspaper design and layout. Assignments focus on routine stories, and may include editorials or features such as profiles. Copy editing is limited to reading for technical errors. This class is designed for students with an interest in print media and provides instruction in the journalistic process on an entry level. Skills developed in this course include research techniques and the evaluation and analysis of information. Students are guided by ongoing advice, criticism, and evaluation from a faculty adviser. Students enrolled in the course for 2 units are expected to participate in the production of the student newspaper for at least 6 hours per week, while students enrolled for 3 units are expected to participate at least 9 hours per week and contribute more extensively to the layout and/or production of the paper. (FT) AA/AS; CSU.

### **210B Newspaper Production 2**

**6-9 hours lab, 2-3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Journalism 210A with a grade of "C" or better, or equivalent.

This course is designed to provide additional ongoing experience in the production and publication of a student newspaper. Emphasis is placed on helping students progress in the gathering and writing of news and features. This class provides exposure to the journalistic process beyond the entry level and guides students to polish reporting, news writing, editing, design, and photography skills, tackle more complex subjects, and assume more responsibility for the design of their own pages.

Students continue to develop research skills and engage in the evaluation and analysis of information and are guided by ongoing advice, criticism and evaluation from a faculty adviser. Students enrolled in the course for 2 units are expected to participate in the production of the student newspaper for at least 6 hours per week, while students enrolled in the course for 3 units are expected to participate at least 9 hours and contribute more extensively to the layout and/or production of the paper. (FT) AA/AS; CSU.

### **210C Newspaper Production 3**

**6-9 hours lab, 2-3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Journalism 210B with a grade of "C" or better, or equivalent.

This course is designed to provide additional ongoing experience in the production and publication of a student newspaper. Emphasis is placed on helping students progress to an intermediate level in the gathering and writing of news and features. Students conduct in-depth reporting and write more sophisticated news stories and may also serve as section editors or assist editors with copy editing, assignments, photography, the news budget, and design. Additionally students develop skill in setting newspaper policies, mentoring others, working in teams, and uncovering news stories. Students are guided by ongoing advice, criticism, and evaluation from a faculty adviser. Student enrolled in the course for 2 units are expected to participate in the production of the student newspaper for 6 hours per week, while students enrolled for 3 units are expected to participate at least 9 hours per week, and contribute more extensively to the layout and production of the paper. (FT) AA/AS; CSU.

### **210D Newspaper Production 4**

**6-9 hours lab, 2-3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Journalism 210C with a grade of "C" or better, or equivalent.

This course is designed to provide additional ongoing experience in the production and publication of a student newspaper. Emphasis is placed on helping students progress to an advanced

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level in the gathering and writing of news and features. In addition to reporting and writing, students at this level, assume responsibility for organizing and managing the newsroom, which includes conducting story conferences, developing the news budget, assigning stories, coaching reporters, and editing and designing the paper in its entirety. Students may also make photo assignments and provide coaching for novice photographers. Students are guided by ongoing advice, criticism and evaluation from a faculty adviser. Students enrolled in the course for 2 units are expected to participate in the production of the student newspaper for 6 hours per week, while students enrolled for 3 units are expected to participate at least 9 hours per week and contribute extensively to the layout and production of the paper. (FT) AA/AS; CSU.

## 220 Principles of Public Relations

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course evaluates public relations as a growing profession. The course looks at the job opportunities for the practitioner, internal and external public relations (PR) and the staff as well as the counselor tasks. It investigates relationships with the media, organizing and executing campaigns. The use of photography, graphics and marketing is also studied. This course is designed for students interested in learning about the field of public relations. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Latin (LATI)

### 101 First Course in Latin

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

This is the first of a three-course sequence in Latin providing beginning level instruction in classical Latin language and culture. Students are introduced to Roman culture and society with a special emphasis on everyday life and religious practices. In this course, students study classical Latin grammar, syntax, and pronunciation at the novice level. Elementary translations from Latin to English and English to Latin are accomplished. Basic language structures and vocabulary are examined and explored. This course is intended for students interested in language study and linguistics and meets general education requirements in the humanities. (FT) AA/AS; CSU; UC Transfer Limitation: Corresponds to two years of high school study.

### 102 Second Course in Latin

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Latin 101 with a grade of "C" or better, or equivalent, or two years of high school Latin with a grade of C or better.

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

This is the second of a three-course sequence in Latin. In this course, students study classical Latin grammar, syntax and pronunciation at the novice-mid level. The study of Roman culture and society continues with a special emphasis on Roman history and the political organization of Rome and its territories. Translation skills from Latin to English and English to Latin are developed and improved beyond the novice level. Moderate to complex language structures and vocabulary are examined and explored. This course is intended for students interested in language study and linguistics, and meets general education requirements in the humanities. (FT) AA/AS; CSU; UC.

### 201 Third Course in Latin

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Latin 102 with a grade of "C" or better, or equivalent, or three years of high school Latin with grades of C or better.

This is the third of a three-course sequence in Latin. In this course, students study classical Latin grammar, syntax, and pronunciation at the intermediate level. The study of Roman culture and society continues with a special emphasis on Roman literature and mythology. Translation skills from Latin to English and English to Latin are developed and improved beyond the mid-novice level. Complex

language structures and vocabulary are examined and explored. This course is intended for students interested in language study and linguistics, and meets general education requirements in the humanities. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

### Legal Administrative Assistant

See Computer Business Technology (CBTE), page 313

## Library Science (LIBS)

### 101 Information Literacy and Research Skills 1 hour lecture, 1 unit Letter Grade or Pass/No Pass Option

**Advisory:** English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; or English 37A, English 37B, each with a grade of "C" or better, or equivalent. This course is an overview of information resources and the skills required to use them effectively. Students learn how to use library resources such as electronic indexes and databases, online services, and the Internet, as well as learn to develop strategies for conducting research. This course is intended for students who wish to acquire skills that enable them to find information for academic research, career demands, and/or lifelong learning. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Marketing (MARK)

### 100 Principles of Marketing 3 hours lecture, 3 units Grade Only

**Advisory:** English 42 and English 43, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and W4.

This course is an overview of the foundations, principles, processes, and goals of marketing. Topics include ethics and social responsibility, global marketing and world trade, corporate marketing and strategies. Marketing strategies include product planning, development, pricing, distribution, and promotion. This course is intended for students majoring in business or others interested in a business setting such as managers and supervisors. (FT) AA/AS; CSU.

### 105 Professional Selling 3 hours lecture, 3 units Grade Only

**Advisory:** English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the principles of sales and selling. Emphasis is placed on the role of human relations in the processes of selling products, services and ideas. Topics include sales techniques, including opening the sale, discovering the needs and wants of the client, addressing objections and closing the sale. Students develop and deliver written and oral sales presentations. This course is designed for students majoring in marketing and anyone interested in the sales profession. (FT) AA/AS; CSU.

### 110 Principles of Retailing 3 hours lecture, 3 units Grade Only

**Advisory:** English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the principles and practices of retailing. Topics include retail strategic

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planning, merchandise management, supply chain management, and retail location and site analysis. This course is designed for students majoring in Marketing and anyone interested in learning more about the different aspects of running a successful retail operation. (FT) AA/AS; CSU.

### 130 Advertising Principles

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the principles and practices of advertising. Emphasis is placed on target marketing, consumer behavior, and Integrated Marketing Communications (IMC). This course is designed for students majoring in Marketing and anyone interested in employment or a career in the field of advertising. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Mathematics (MATH)

### Basic Skills Courses

All courses at this level are offered for college credit. Credit for these courses will not apply toward the associate degree but will count toward the determination of a student's workload and eligibility for financial aid.

#### 15A Prealgebra Refresher

**3 hours lab, 1 unit  
Pass/No Pass Only**

This course is intended for those students who have completed the math assessment with a level of M20 (prealgebra) and wish to improve their placement level; those students who have successfully completed Mathematics 38 but need more review; or students who unsuccessfully attempted Mathematics 46 and need review of prealgebra skills. The course will consist of lecture classes and/or independent study using a computer program

to refresh those concepts identified as needed for each student. Successful completion of this course may serve as a basis for a petition to challenge Mathematics 38. This course will not replace a failing grade in Mathematics 38. Not Applicable to Associate Degree, pre-collegiate basic skills - reading, writing, computation.

#### 15B Elementary Algebra and Geometry Refresher

**3 hours lab, 1 unit  
Pass/No Pass Only**

This course is intended for those students who have completed the math assessment with a level of M30 (beginning algebra and geometry) and wish to improve their placement level; students who have successfully completed Math 15A; students who have successfully completed Math 46 but need more review; or students who unsuccessfully attempted Math 96 and need review of beginning algebra and geometry skills. The course will consist of personalized computer assisted instruction to refresh those concepts identified as needed for each student. Successful completion of this course may serve as a basis for a petition to challenge Math 46. This course will not replace a failing grade in Math 46. Not Applicable to Associate Degree, pre-collegiate basic skills - reading, writing, computation.

#### 15C Intermediate Algebra and Geometry Refresher

**3 hours lab, 1 unit  
Pass/No Pass Only**

This course is intended for those students who have completed the math assessment with a level of M40 (intermediate algebra and geometry) and wish to improve their placement level; students who have successfully completed Math 15B; students who have successfully completed Math 96 but need more review; or students who unsuccessfully attempted Math 104, 116, 141 or 210A and need review of intermediate algebra and geometry skills. The course will consist of personalized computer assisted instruction to refresh those concepts identified as needed for each student. Successful completion of this course may serve as a basis for a petition to challenge Math 96. This course will not replace a failing grade in Math 96. Not Applicable to Associate Degree, pre-collegiate basic skills - reading, writing, computation.



**15D Geometry Refresher****3 hours lab, 1 unit  
Pass/No Pass Only**

This course is intended for those students who have completed a high school geometry course or for those students who have completed Math 96 and need to review geometric principles prior to taking Math 210B or trigonometry. The course will consist of independent study using a computer program to refresh those concepts identified as needed for each student. (FT) Not Applicable to Associate Degree, pre-collegiate basic skills, English as a Second Language.

**15E Trigonometry Refresher****3 hours lab, 1 unit  
Pass/No Pass Only**

This course is intended for those students who have completed the math assessment with a level of M50 who need to review their trigonometry knowledge prior to taking precalculus or calculus. Students begin at the level of their original placement and, working at their own pace, may improve their placement up to M60 (precalculus level). This course consists of independent study using a computer program to refresh those concepts identified as needed for each student. (FT) Not Applicable to Associate Degree, pre-collegiate basic skills - reading, writing, computation.

**15F College Algebra Refresher****3 hours lab, 1 unit  
Pass/No Pass Only**

This course is intended for those students who have completed the math assessment with a level of M50 and need to review their college algebra knowledge prior to taking either calculus sequence. This course will consist of personalized computer assisted instruction to refresh those concepts identified as needed for each student. Students will begin at the level of their original placement and, working at their own pace, may improve their placement. Successful completion of this course may serve as a basis for a petition to challenge College Algebra. Students wishing to challenge Pre-calculus must also show competence in Trigonometry, which may be done by completing Math 15E. (FT) Not applicable to the Associate Degree.

**34A Basic Mathematics and Study Skills**

(formerly Mathematics 32)

**4 hours lecture, 4 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 42 or English for Speakers of Other Languages 31, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 or L40.

*Limitation on Enrollment:* This course is not open to students with previous credit for Mathematics 32.

This course is an introduction to fundamental concepts of arithmetic. Emphasis is placed on addition, subtraction, multiplication, division and exponentiation on whole numbers, fractions, and decimals. Topics also include simple percents and ratios, systems of measurement, and applications of these topics. Students learn basic study skills necessary for success in mathematics courses. This course is intended for students preparing for Pre-algebra. (FT) Not applicable to the Associate Degree.

**38 Pre-Algebra and Study Skills**

(formerly Mathematics 35)

**4 hours lecture, 4 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 42 or English for Speakers of Other Languages 31 and Mathematics 34A, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 or L40 and M20.

*Limitation on Enrollment:* This course is not open to students with previous credit for Mathematics 35.

This course is a study of the fundamentals of arithmetic operations with signed numbers, including fractions and decimals as well as an introduction to some elementary topics in beginning algebra. Topics also include ratios and proportions, perfect squares and their square roots, elementary topics in geometry, systems of measurement, and monomial arithmetic. Students learn basic study skills necessary for success in mathematics courses. This course is intended for students preparing for Beginning Algebra. (FT) Not applicable to the Associate Degree.

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**46 Elementary Algebra and Geometry**

(formerly Mathematics 95)

**5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option***Prerequisite:* Mathematics 38 with a grade of "C" or better, or equivalent, or Assessment Skill Level M30.*Advisory:* Completion of or concurrent enrollment in: English 43 and English 48, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W4 and R5.*Limitation on Enrollment:* This course is not open to students with previous credit for Mathematics 95 with a grade of "C" or better.

Elementary algebra and geometry serves as the foundation for the other math courses and is the first of a two-course integrated sequence in algebra and geometry intended to prepare students for transfer level mathematics. This course covers the real number system; writing, simplifying, solving and graphing of linear equations in one variable; solving linear inequalities in one variable; solving systems of linear equations in two variables; algebraic operations with polynomial expressions and factoring; functions; operations involving rational expressions and related equations; and geometric properties of lines, angles, and triangles. This course is intended for students preparing for higher-level geometry and algebra courses. (FT) Not Applicable to Associate Degree, basic skills.

**Associate Degree Courses****84 Practical Geometry****3 hours lecture, 3 units  
Grade Only***Prerequisite:* Mathematics 46 with a grade of "C" or better, or equivalent, or Assessment Skill Level M40.*Advisory:* English 43 with a grade of "C" or better, or equivalent, or Assessment Skill Level W4.

This course explores two and three-dimensional geometry through the use of transformations and constructions and proof. Students are also introduced to right triangle trigonometry. This course is designed for students who are earning an associate's degree and who are not planning to transfer to a four-year institution. (FT) Associate Degree Credit only and not Transferable.

**85 Practical Career Mathematics****3 hours lecture, 3 units  
Grade Only***Prerequisite:* Mathematics 46 with a grade of "C" or better, or equivalent, or Assessment Skill Level M40.*Advisory:* English 43 with a grade of "C" or better, or equivalent, or Assessment Skill Level W4.

This course is a study of the practical applications of linear, quadratic and exponential growth models. Topics also include statistical methods, geometry, right triangle trigonometry and finance math. This course will develop math literacy through the use of current events and real life applications. This course is designed for students who are earning an associate's degree and who are not planning to transfer to a four-year institution. (FT) Associate Degree Credit only and not Transferable.

**96 Intermediate Algebra and Geometry****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option***Prerequisite:* Mathematics 46 with a grade of "C" or better, or equivalent, or Assessment Skill Level M40.*Advisory:* English 43 and English 48, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W4 and R5.

Intermediate Algebra and Geometry is the second of a two-semester integrated sequence in algebra and geometry. This course covers systems of equations and inequalities; radical and quadratic equations; quadratic functions and their graphs; complex numbers; nonlinear inequalities; exponentials and logarithmic functions; conic sections; sequences and series; and solid geometry. The course will also include application problems involving the topics covered. This course is the prerequisite for numerous collegiate level/transfer level mathematics courses. (FT) Associate Degree Credit only and not Transferable.

**Transfer Level Courses****104 Trigonometry****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option***Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent or Assessment Skill Level M50.

This course is a study of the numerical, analytical, and geometric properties of right and oblique triangles, of trigonometric and inverse trigonometric functions, and their applications. The course content includes right angle trigonometry, radian measure, circular functions, graphs of circular functions and their inverses, trigonometric identities, equations involving trigonometric and inverse trigonometric functions, an introduction of the complex plane, vectors and their operations, and the trigonometric form of complex numbers. This course is designed as

a preparation for calculus and it is intended for the transfer student planning to major in mathematics, engineering, economics, or disciplines included in the physical or life sciences. (FT) AA/AS; CSU.

### 116 College and Matrix Algebra

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50. This course is designed to strengthen the algebra skills of students seeking Business or Natural Science degrees who are required to take an applied calculus course. Topics in the course include the theory of functions; graphing functions; exponential and logarithmic functions; solving equations involving algebraic, exponential and logarithmic functions; solving systems of linear equations; matrix algebra; linear programming; modeling; and applications problems. Analytical reading and problem solving skills are required for success in this course. (FT) AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 116 and 141 combined: maximum credit, one course.

### 118 A Survey of Modern Mathematics

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50. *Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course covers topics in probability, statistics, logical reasoning, quantitative literacy, the history of mathematics, and applications of mathematics to the real world. This is a general education course designed for students who do not intend to prepare for a career in science or business. Analytical reading and problem solving are required for success in this course. (FT) AA/AS; CSU.

### 119 Elementary Statistics

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50. This course covers descriptive and inferential statistics. The descriptive portion analyzes data through graphs, measures of central tendency and spread. Other statistical practices utilize basic probability, binomial and normal distributions, estimation of population parameters, hypothesis testing, linear regression and correlation. Analytical reading and problem solving are required for

success in this course. This course meets district G.E. requirements. (FT) AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 119, Biology (BIOL) 200 or Psychology (PSYC) 258 combined: maximum credit, one course.

### 121 Basic Techniques of Applied Calculus I

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 116 with a grade of "C" or better, or equivalent.

This course examines the study of calculus using numerical, graphical, and analytical methods to analyze calculus problems encountered in real-world applications in business, natural/life sciences, and social sciences. Topics include limits, derivatives, and integrals of algebraic, exponential, and logarithmic functions, curve sketching, optimization, and areas under and between curves and partial derivatives and optimization of multivariable functions. This is the first course in a sequence of mathematics courses for students intending to major in business, economics, or natural and social sciences. This course does not fulfill a mathematics requirement for mathematics, chemistry, physics, or engineering majors at most universities. (FT) AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 121 and 150 combined: maximum credit, one course.

### 122 Basic Techniques of Calculus II

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 121 with a grade of "C" or better, or equivalent.

This second course in a math sequence covers methods of integration, multivariable functions and optimization problems, differential equations, Taylor series development and application, derivatives and integrals of trigonometric functions, and their usage in solving problems encountered in real-world applications in business, life and social sciences and economics. It is intended for students majoring in business, natural science, social science and economics. AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 122 and 151 combined: maximum credit, one course.

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**141 Precalculus****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 104 with a grade of "C" or better, or equivalent.

This course is a study of numerical, analytical, and graphical properties of functions. The course content includes polynomial, rational, irrational, exponential, logarithmic, and trigonometric functions. Additional topics include: inverse functions, complex numbers, polar coordinates, matrices, conic sections, sequences, series and the binomial theorem. This course is designed as a preparation for calculus and is intended for the transfer student planning to major in mathematics, engineering, economics, or disciplines included in the physical or life sciences. (FT) AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 116 and 141 combined: maximum credit, one course.

**150 Calculus with Analytic Geometry I****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 141 with a grade of "C" or better, or equivalent.

This course is a primary introduction to university level calculus. The topics of study include analytic geometry, limits, differentiation and integration of algebraic and transcendental functions. Emphasis is placed on calculus applications. Analytical reading and problem solving are required for success in this course. This course is intended for the transfer student planning to major in mathematics, computer science, physics, chemistry, engineering, or economics. AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 121 and 150 combined: maximum credit, one course.

**151 Calculus with Analytic Geometry II****4 hours lecture, 4 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 150 with a grade of "C" or better, or equivalent.

This is the second course in the calculus and analytic geometry sequence. This course covers more advanced topics in analytic geometry, differentiation and integration of algebraic and transcendental functions, infinite series, Taylor series, and parametric equations. This course also covers a general introduction to the theory and applications of power series, techniques of integration, and functions in polar coordinates, as it serves as a basis for multivariable calculus and differential equations, as

well as most upper division courses in mathematics and engineering. This course is intended for the transfer student planning to major in mathematics, computer science, physics, chemistry, engineering or economics. (FT) AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 122 and 151 combined: maximum credit, one course.

**210A Concepts of Elementary School Mathematics I****3 hours lecture, 3 units****Grade Only**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent or Assessment Skill Level M50.

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6 or English 105 with a grade of "C" or better, or equivalent.

This course is a study of the mathematical concepts needed for teaching elementary school mathematics with emphasis on number and function. This course promotes an appreciation of the importance of logical thinking and applications of mathematics in problem solving and critical thinking. It studies the basic computational skills, but also requires the understanding and explanation of the basic mathematical concepts and the connections between them. It is designed especially for students preparing for credentials in elementary education. Analytical reading and problem solving are required for success in this course. (FT) AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 210A and 210B combined: maximum credit, one course.

**210B Concepts of Elementary School Mathematics II****3 hours lecture, 3 units****Grade Only**

*Prerequisite:* Mathematics 210A with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Level R6/W6 or English 105 with a grade of "C" or better, or equivalent.

This course is the second course in a one-year sequence in the study of the mathematical concepts needed for teaching elementary school mathematics with emphasis on geometry, transformational geometry, and measurement. This course also promotes an appreciation of the importance of logical thinking and applications of mathematics in problem solving and critical thinking. It studies the understanding and explanation of the basic

mathematical concepts and the connections between them. It is designed especially for students preparing for credentials in elementary education. Analytical reading and problem solving are required for success in this course. (FT) AA/AS; CSU; UC  
 Transfer Limitation: Mathematics (MATH) 210A and 210B combined: maximum credit, one course.

**212 Children’s Mathematical Thinking**  
**1 hour lecture, 1 unit**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Mathematics 210A with a grade of “C” or better, or equivalent.  
*Advisory:* English 101 or English 105, with a grade of “C” or better, or equivalent, or Assessment Skill Levels R6 and W6.  
 This course focuses on children’s mathematical thinking and includes an in-depth study of place-value, fractions and how children solve mathematical problems. Students observe children and evaluate the problem strategies that are used. This course is intended for students pursuing a Multiple Subject Credential. (FT) AA/AS; CSU.

**215 Introduction to Teaching Mathematics**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 141 or Mathematics 116 each with a grade of “C” or better, or equivalent.  
*Limitation on Enrollment:* Health and Safety. Must meet safety and health clearance standards for a public school field experience placement.  
 This course introduces students to teaching and learning mathematics in the middle/secondary school classroom environment. Emphasis is placed on mathematics problems and materials, assessments, and methodologies. Students address a variety of learning modalities and approaches through observation in the field and in-class seminar discussion. This course is designed for students interested in all levels of teaching, especially middle and secondary school mathematics. (FT) AA/AS; CSU; UC.

**245 Discrete Mathematics**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 122 or Mathematics 151, each with a grade of “C” or better, or equivalent.  
*Advisory:* English 101 with a grade of “C” or better, or equivalent or Assessment Skill Levels R6 and W6.  
 This course is an introduction to the theory of

discrete mathematics and introduces elementary concepts in logic, set theory, and number theory. The topics covered include propositional and predicate logic, methods of proof, set theory, Boolean algebra, number theory, equivalence and order relations, and functions. This forms a basis for upper division courses in mathematics and computer science, and is intended for the transfer student planning to major in these disciplines. (FT) AA/AS; CSU; UC.

**252 Calculus with Analytic Geometry III**  
**4 hours lecture, 4 units**  
**Grade Only**

*Prerequisite:* Mathematics 151 with a grade of “C” or better, or equivalent.  
 The content of this course includes the algebra and geometry of 2 and 3 dimensional Euclidean vectors, limits, continuity, partial differentiation, extremes of vector-valued and multivariable functions, higher order derivatives, the chain rule, Lagrange’s theorem, multiple integrals, integrals over paths and surfaces, and integral theorems of vector analysis. This course is intended as a general introduction to the theory and applications of multivariable calculus. It is essential for most upper division courses in mathematics and forms part of the foundation for engineering and physics. It is intended for the transfer student planning to major in mathematics, physics, engineering, computer science, physical chemistry, operational research, or economics. (FT) AA/AS; CSU; UC.

**254 Introduction to Linear Algebra**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 151 with a grade of “C” or better, or equivalent.  
 This course serves as an introduction to the theory and applications of elementary linear algebra, and is the basis for most upper division courses in mathematics. The topics covered in this course include matrix algebra, Gaussian Elimination, systems of equations, determinants, Euclidean and general vector spaces, linear transformations, orthogonality and inner product spaces, bases of vector spaces, the change of basis theorem, eigenvalues and eigenvectors, the rank and nullity of matrices and of linear transformations. This course is

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intended for the transfer student planning to major in mathematics, physics, engineering, computer science, operational research, economics, or other sciences. (FT) AA/AS; CSU; UC.

## 255 Differential Equations

3 hours lecture, 3 units  
Grade Only

*Prerequisite:* Mathematics 252 and Mathematics 254, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for Mathematics 253.

This course covers first order and higher order equations and their applications. Topics include linear first order and higher order equations, homogeneous and nonhomogeneous equations with constant or variable coefficients, and systems of ordinary differential equations. Methods used to solve equations include substitution methods, integrating factors, reduction of order, variation of parameters, power series solutions, and Laplace Transforms. This course is intended as an introduction to the theory and applications of differential equations and is the basis for many upper division courses in engineering, physics, and mathematics. It is intended for the transfer student planning to major in mathematics, engineering, operational research, physics, or other physical science. (FT) AA/AS; CSU; UC.

## 290 Independent Study

Hours by Arrangement, 1-3 units  
Letter Grade or Pass/No Pass Option

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

This courses is for advanced students who wish to pursue special investigations. This course may be taken four times with different content for a maximum of six units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Medical Assisting (MEDA)

### 55 Fundamentals Human Anatomy and Physiology

3 hours lecture, 3 units  
Grade Only

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Medical Assisting 105.

This course examines the structures of the human body and the functions of the major body systems. Topics include cell structure and physiology, tissue classification and function, and general body organization. This course is designed for medical assisting majors and anyone interested in entering a health care career. (FT) Associate Degree Credit only and not Transferable.

### 64 Medical Ethics and Legal Issues for the Allied Health Professional

1 hour lecture, 1 unit  
Grade Only

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Medical Assisting 101.

This course presents future Allied Health professionals with an overview of ethical and legal practices related to the medical field. Guidelines pertaining to the laws, policies and regulations associated with medical issues and clinical practice within the various Allied Health professions, as well as those established by their associated accrediting/licensing agencies, are described and discussed. The impact of the cultural, social, ethical differences and the expectations from the patient's perspective are analyzed and assessed. (FT) Associate Degree Credit only and not Transferable.

### 66 Administrative Medical Assisting I

1 hour lecture, 3 hours lab, 2 units  
Grade Only

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment

Skill Levels R5 and W5. Medical Assisting 110 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Medical Assisting 104. Special Admission - must be admitted to program.

This course is designed to prepare Allied Health students to work in physicians' offices, clinics, hospitals, and other medical areas. The course covers administrative and clerical functions of a medical office assistant including patient reception, scheduling appointments, telephone procedures, medical records management, written communications, patient records, office management, professional activities, and personal conduct. (FT) Associate Degree Credit only and not Transferable.

### 68 Human Behavior for Allied Health Students

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Medical Assisting 102.

This course introduces students in the allied health professions to the basic principles of psychology as they relate to human behavior and personality development from birth to old age. Emphasis is placed on cultural, social, hereditary and environmental influences on human behavior and personality development, including behavior associated with death, dying and grieving. Topics include an exploration of varied cultural beliefs, values and practices regarding health and illness, concepts of mental wellness and mental disorders, and methods of treatment and therapy used in the rehabilitation and recovery of patients with mental illnesses. (FT) Associate Degree Credit only and not Transferable.

### 76 Principles of Infection Control and Sterile Technique

**1 hour lecture, 1.5 hours lab, 1.5 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is not open to students with previous credit for MEDA 106.

This course provides an overview and application of current Occupational Safety and Health Administration (OSHA) policies and regulations and Standard Precautions related to infection control in the clinical setting. This course is designed to meet OSHA and blood-borne pathogen control for medical assisting and other allied health students who have potential exposure to infectious material such as blood, urine and other body fluids. The evolution of asepsis and infection control is presented as a basis for understanding the need for protection in health care and service environments. The application and use of personal protective equipment (PPE), medical and surgical aseptic hand washing techniques, disposal of biohazard material and other related topics is explored and practiced. This course also covers the differences between disinfection and sterilization. Students sterilize instruments, materials and equipment using a variety of methods and set-ups to maintain and work in a sterile field. (FT) Associate Degree Credit only and not Transferable.

### 78 Principles of Patient Care

**1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Medical Assisting 55, 76, 82 and 110, each with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for MEDA 112. Special Admission - must be admitted to program.

This course provides Medical Assisting students with the fundamentals of patient care in the clinical setting. Students practice the communication skills needed to obtain patient information, as well as instruct and educate patients. Students apply the principles of medical documentation to record information obtained from patient interviews, measuring vital signs, procedures performed or other pertinent patient information as an entry in the patient's medical record. Correct body mechanics needed to assist, move and position patients

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are presented and students practice positioning patients, preparing trays, measuring a patient's vital signs and assisting with general and specialized clinical procedures performed in the medical setting and within the "Scope of Practice" for the Medical Assistant. (FT) Associate Degree Credit only and not Transferable.

### 80 Basic Phlebotomy

**4 hours lecture, 1.5 hours lab, 4.5 units  
Grade Only**

*Advisory:* English 48 and English 49 and Mathematics 38, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M30.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course provides basic training in capillary puncture through didactic and clinical instruction as required by the State of California, Department of Health Services-Laboratory Field Services. The lecture portion of this course includes Anatomy and Physiology of the body systems with emphasis on the Circulatory System, Medical Terminology and Infection Control. The clinical component of this course provides students with hands-on training in capillary puncture. Students apply knowledge of theory to the clinical setting. This course is intended for students in the Phlebotomy Training Program. Upon successful completion of the Phlebotomy Training Program students are awarded a Certificate of Performance in Phlebotomy and may apply for State of California certification as a Certified Phlebotomy Technician 1 (CPT 1) and sit for the American Medical Technologists exam for Registered Phlebotomy Technician (RPT). (FT) Associate Degree Credit only and not Transferable.

### 82 Diagnostic Testing

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Medical Assisting 55, 78 and 110, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is not open to students with previous credit for Medical Assisting 113.

This course presents the principles of diagnostic testing to students in the medical assisting program. Students are introduced to the various types of medical laboratories and methods of quality control for specimen collection, transport, and testing while they learn to screen patients for various

diagnostic tests and to follow-up test results. Emphasis is placed on the application of laboratory safety practices in accordance with Standard Precautions and Occupational Safety & Health Administration (OSHA) regulations. Students use common laboratory equipment to perform Clinical Lab Improvement Act (CLIA) approved tests for medical assistants, including hematology, chemistry, immunology and microbiology tests, urinalysis, and respiratory function testing and result analysis. Topics also include the principles of radiological tests, such as X-rays, computerized axial tomography (CT) scanning and magnetic resonance imaging (MRI). (FT) Associate Degree Credit only and not Transferable.

### 85 Advanced Phlebotomy

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Prerequisite:* Medical Assisting 80 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course provides training in venipuncture through didactic and clinical instruction, including advanced training as required by the State of California, Department of Health Services-Laboratory Field Services. The lecture portion of this course includes advanced Infection Control and biohazards, risk factors and appropriate responses to complications, anatomical site selection, quality assurance, pre-analytical source of error and ethical and legal issues related to phlebotomy. The clinical component of this course provides students with hands-on training in venipuncture. Students apply knowledge of theory to the clinical setting. This course is intended for students in the Phlebotomy Training Program. Upon successful completion of the Phlebotomy Training Program students are awarded a Certificate of Performance in Phlebotomy and may apply for State of California certification as a Certified Phlebotomy Technician 1 (CPT 1) and sit for the American Medical Technologists exam for Registered Phlebotomy Technician (RPT). (FT) Associate Degree Credit only and not Transferable.

### 86 Administrative Medical Assisting II

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Prerequisite:* Medical Assisting 110 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment



Skill Levels R5 and W5; Mathematics 46 with a grade of "C" or better, or equivalent or Assessment Skill Level M40.

*Limitation on Enrollment:* This course is not open to students with previous credit for Medical Assisting 205 or 240 and 245.

This course introduces and instructs Allied Health students in the use of accounting systems for medical and dental offices (including the pegboard and computerized accounting systems) and health insurance procedures. Emphasis is placed on medical accounting terminology, ledgers, methods used in payroll accounting, preparation of account charts and correct completion of benefit and claim forms. This course also prepares students to work with insurance forms in medical offices, hospitals and other clinical settings and in the proper use of procedural and diagnostic coding utilizing the most current editions of Physicians Current Procedural Terminology and International Classification of Diseases. (FT) Associate Degree Credit only and not Transferable.

### 90 Phlebotomy Practicum

**75 - hours other, 1 unit  
Grade Only**

*Prerequisite:* Medical Assisting 85 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is an unpaid 75 hour clinical experience designed for students to gain additional experience in phlebotomy. Students complete 50-100 venipunctures, 25 capillary punctures and observe 2 arterial punctures at an appropriate clinical site. Students apply knowledge of theory to the clinical setting. This course is intended for students in the Phlebotomy Training Program. Upon successful completion of the Phlebotomy Training Program students are awarded a Certificate of Performance in Phlebotomy and may apply for State of California certification as a Certified Phlebotomy Technician 1 (CPT 1) and sit for the American Medical Technologists exam for Registered Phlebotomy Technician (RPT). (FT) Associate Degree Credit only and not Transferable.

### 100 Principles of Infection Control

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Medical Assisting 120.

This course provides an overview and application of current Occupational Safety and Health Administration (OSHA) and Standard Precautions related to infection control in the clinical setting. This course is designed to meet OSHA and blood-borne pathogen control for medical assistants, other allied health personnel and occupations that have exposure to potentially infectious material such as blood, urine and other body fluids. The evolution of asepsis and infection control will be presented as a basis for understanding the need for protection in health care and service environments. The application and use of personal protective equipment (PPE), aseptic handwashing techniques, disposal of biohazard material and other related topics will be explored and practiced. (FT) AA/AS; CSU.

### 103 Professionalism and Teamwork in Health Care

**1 hour lecture, 1 unit  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course examines the professional traits and skills of the successful health care professional. Students in this course will realize the job commitment needed to pursue a career in the Allied Health field, and the professional traits and skills needed to be successful in this field. Students will be introduced to teamwork practices utilized in the Allied Health environment. Students will also become familiar with the "Code of the Professional Ethics" and "Scope of Practice" specific for the Allied Health area that applies to their individual career and interests. Lastly, students will be instructed in composing a personal resume, completing a job application and participating in the interviewing process. (FT) AA/AS; CSU.

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**110 Medical Terminology****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course covers basic medical terminology and the vocabulary of medical specialties. Special emphasis is on the use of prefixes and suffixes, and non-technical explanations of medical terms and descriptions of anatomy, physiology, and pathology. Students learn to utilize medical terminology as it applies to the structure of the human body, common laboratory tests, radiological and operative procedures, as well as basic pharmacology. This course is open to the general public as well as students in special programs or those who wish to review this information. (FT) AA/AS; CSU.

**115 Pathophysiology****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Advisory:* Completion of or concurrent enrollment in: Medical Assisting 105 or 110 or Biology 160, each with a grade of "C" or better, or equivalent.

The course focuses on disease processes in the human body from a systems approach. Analysis of some of the most common and significant diseases is included. The signs and symptoms, etiology, diagnosis, and treatment of disease are examined along with the appropriate medical terminology. This course is designed for students in allied health programs, but is also open to those who wish to broaden their medical background or review this information. (FT) AA/AS; CSU.

**145 Directed Clinical Practice****225 hours other, 3 units  
Grade Only**

*Prerequisite:* Medical Assisting 110, 112 and 113, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is designed to give medical assisting students hands-on, unpaid clinical experience at a medical facility. Focus is placed on the safe, legal, ethical and effective application of skills learned in prior medical assisting courses. This course also fosters the development of communication skills, interpersonal relationships and professionalism

required for the healthcare field. Supervision of students is provided by the staff of the affiliating institution and coordinated by the college faculty. (FT) AA/AS; CSU.

**150 Phlebotomy****2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Medical Assisting 105 or Biology 160, with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49 and Mathematics 46, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M40.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course prepares students to perform venipunctures, capillary punctures, and basic blood lab tests required for entry-level medical assisting positions in clinics and other health care settings. This course is designed for students completing the Medical Assisting Program. (FT) AA/AS; CSU.

**220 Electrocardiogram Application****1.5 hours lab, .5 units  
Grade Only**

*Prerequisite:* Medical Assisting 113 with a grade of "C" or better, or equivalent.

*Corequisite:* Medical Assisting 230 and 250, each with a grade of "C" or better, or equivalent. Completion of or concurrent enrollment in: Medical Assisting 150 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Medical Assisting 130. Special Admission - must be admitted to program.

This course presents the Medical Assisting and other Allied Health students with the basic principles of performing and analyzing an electrocardiogram (ECG). Students review the anatomy, physiology and electrophysiology of the heart and circulatory system as it pertains to an ECG. The basic components of an ECG, types of cardiac rhythms; both normal and abnormal presented. Students perform and analyze a normal 12-Lead ECG. Students also become familiar with and are able to identify the abnormal cardiac rates, rhythms and conditions that can be diagnosed utilizing an ECG. This course is appropriate for medical care workers with a need for this information. (FT) AA/AS; CSU.

**230 Minor Surgery****1.5 hours lab, .5 unit  
Grade Only**

*Prerequisite:* Medical Assisting 113 with a grade of "C" or better, or equivalent.

*Corequisite:* Medical Assisting 220 and 250, each with a grade of "C" or better, or equivalent. Completion of or concurrent enrollment in: Medical Assisting 150 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Medical Assisting 130. Special Admission - must be admitted to program.

This course introduces the Medical Assisting student to the principles of minor surgery, its history and settings. Students become familiar with a variety of common surgical procedures and utilize the instruments, materials and supplies used in the procedures in an aseptic manner. Patient pre-operative and post-operative processing is also presented and practiced. Alternate surgical procedures are also discussed. Students are instructed in the Scope of Practice of the Medical Assistant as it relates to minor surgery. (FT) AA/AS; CSU.

**250 Medication Administration Practicum****1.5 hours lab, .5 units  
Grade Only**

*Prerequisite:* Medical Assisting 113 with a grade of "C" or better, or equivalent.

*Corequisite:* Medical Assisting 220 and 230, each with a grade of "C" or better, or equivalent. Completion of or concurrent enrollment in: Medical Assisting 150 with a grade of "C" or better, or equivalent.

*Advisory:* Health Information Technology 125 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Medical Assisting 130. Special Admission - must be admitted to program.

In this course the Medical Assisting student practices the hands-on-application of medication administration. The course presents the principles and the guidelines for reading and interpreting a medical prescription. The course content also stresses the mechanisms for calculating, measuring and administering drugs; both orally and parenterally using placebos to carryout the medical prescription. Principles of intravenous (I.V.) therapy are discussed. Students maintain medication and immunization records in accordance with the appropriate application of documentation

and record preparation principles. Also covered in this course are the complications of medication administration and the immediate measures that need to be applied in each situation. Students should be aware that they perform and practice invasive procedures on each other as one of the course requirements. (FT) AA/AS; CSU.

**290 Independent Study****Hours by Arrangement, 1-3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Provides for additional research, academic or clinical experiences for students with special interest. The course consists of individualized research problems, conferences with the instructor at prearranged intervals and a final written report on the work completed. This course may be taken four times with different content for a maximum of six units. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Multimedia (MULT)****101 Introduction to Multimedia****3 hours lecture, 3 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course provides an overview of the dynamic field of multimedia. Through lecture and demonstration, students learn about the design theory, processes, hardware, software, and career opportunities in multimedia production. Students that are interested in creating web sites, animation,

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video production, and graphic design would benefit from taking this course. (FT) AA/AS; CSU.

### 112 Beginning Flash

**3 hours lecture, 3 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 101 with a grade of "C" or better, or equivalent.

This is a projects-based beginner Flash course designed to develop skills in digital image media design and beginning ActionScript. Emphasis is placed on developing interactive web-based multimedia presentations incorporating ActionScript, sound, video and graphics at the beginning level. This course is intended for students interested in creating interactive web sites, 2-dimensional (2-D) animation, games and applications. This course may be repeated once with significant software changes. (FT) AA/AS; CSU.

### 114 Intermediate Flash

**3 hours lecture, 3 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 112 with a grade of "C" or better, or equivalent.

This is a projects-based intermediate Flash course designed to develop skills in digital image media design and intermediate ActionScript. Emphasis is placed on developing interactive web-based multimedia presentations incorporating ActionScript, sound, video and graphics at the intermediate level. This course is intended for students interested in creating interactive web sites, 2-dimensional (2-D) animation, games and applications with ActionScript. This course may be repeated once with significant software changes. (FT) AA/AS; CSU.

### 116 Flash Game Development

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* Multimedia 114 with a grade of "C" or better, or equivalent.

This is a project-based advanced-level course in Flash for online and stand-alone game creation. Emphasis is placed on the game development process, including design, story and character development, the physics and motion of a game, audio issues, optimization, and deployment. This course is designed for students with a strong foundation in Flash ActionScripting. This course may be repeated once with significant software changes. (FT) AA/AS; CSU.

### 118 Multimedia Production

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 101 and Multimedia 112, each with a grade of "C" or better, or equivalent.

Multimedia Production is a hands-on course in multimedia project planning and production. Students work in teams to design and complete an interactive media project. Original visual and time-based media elements are incorporated, providing each student with a portfolio preparation that presents all skills obtained in the program. This course is intended for students preparing for careers in the multimedia industry. (FT) Associate Degree Credit and not Transferable.

### 120 Video Game Development I: Introduction to Game Design

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5; Multimedia 137 with a grade of "C" or better, or equivalent.

This course is an introduction to the field of video game development. Emphasis is placed on theory and history of interactive video gaming and on the fundamentals of contemporary game design and development. This course is intended for multimedia majors, individuals interested in entering the field of video game development, and anyone interested in the theory and practice of interactive gaming. This course may be taken up to four times with significant software updates. (FT) AA/AS; CSU.

### 121 Digital Image Editing I: Introduction to Photoshop

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5.

This course is designed to develop preliminary skills in the use of digital image design software. Students produce digitally imaged media elements for a diverse range of applications and present a portfolio of their work. This course is intended for multimedia and art majors and anyone interested in digital image design and editing. This course may be taken up to four times with significant software updates. (FT) AA/AS; CSU.

**122 Vector Image Editing****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This is a project-based course designed to develop skills in the use of vector media design software applications. Emphasis is placed on producing vector media elements for a diverse range of applications. This course is intended for multimedia, art, and graphic design students who plan to pursue a career in the multimedia industry. This course may be repeated once with significant software changes. (FT) AA/AS; CSU.

**123 Digital Video****3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 112 with a grade of "C" or better, or equivalent.

This course is a project-based course in the use of nonlinear digital video editing systems. Emphasis is placed on the process of digital video development and production using non-linear video editing techniques. Topics also include the history of film and traditional filmmaking as they relate to current practices. This course is intended for students pursuing careers in the multimedia industry. This course may be repeated once with significant software changes. (FT) AA/AS; CSU.

**124 Digital Image Editing II: Advanced Photoshop****3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 121 with a grade of "C" or better, or equivalent.

This advanced course is designed to develop and refine technical and conceptual skills in the professional applications of digital imaging theory and practice. Emphasis is placed on advanced digital methodologies and visual grammar in the design and production of both traditional and non-traditional works. Students complete a portfolio of digital work for professional presentation. This course is intended for multimedia and art majors and anyone interested in digital image design and editing. This course may be taken up to four times with significant software updates. AA/AS; CSU.

**127 Creating User-Centered Websites****2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; completion of or concurrent enrollment in: Computer Business Technology 114 and 161 and Multimedia 101 and 121, each with a grade of "C" or better, or equivalent.

This course teaches strategies and processes for developing websites and multimedia projects that are user-centered and meet industry standards of usability. User-centered websites are ADA (Americans with Disabilities Act) accessible, functional, and searchable by search engines. Students learn how to design a user-centered website and multimedia projects using a succinct writing style, HTML/XHTML, cascading style sheets (CSS), well-designed navigation, and effective design. Students create and post a website to the Internet. This course is designed for students pursuing a career in multimedia, web development, business or communication. (FT) AA/AS; CSU.

**137 3D Animation I: Introduction to 3D Animation****3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5; Multimedia 121 with a grade of "C" or better, or equivalent.

This course is a guided digital studio approach to developing skills in the use of 3D modeling and animation software. Emphasis is placed on 3D design and visualization, 3D animated films, video game development and general multimedia. This course is intended for multimedia majors and anyone pursuing a career in 3D design and visualization, 3D animation, video game development or general multimedia. This course may be taken up to four times with significant software updates. (FT)AA/AS; CSU.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

### 139 3D Animation II: Character Design for Film and Video Game Production

**1.5 hours lecture, 4.5 hours lab, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 137 with a grade of "C" or better, or equivalent.

This course is a guided digital studio approach to 3D character animation and production. This course combines exercises and individual and group projects to develop necessary skills and techniques in digital studio production. The course is intended for students who are preparing for more advanced study in 3D modeling, animation, and game design. This course may be taken up to four times with significant software updates. (FT) AA/AS; CSU.

### 141 3D Animation III: Realism, Physics, and Particle Systems

**1.5 hours lecture, 4.5 hours lab, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 139 with a grade of "C" or better, or equivalent.

This course is an advanced study in realistic effects and physics systems for 3D modeling, game development and animation. Emphasis is placed on the use of advanced particle systems, physics engines and lighting to create photorealistic scenes and effects. This course is intended for multimedia majors and individuals pursuing careers in 3D animation, film and video game development. This course may be taken up to four times with significant software changes. (FT) AA/AS; CSU.

### 143 3D Animation IV: 3D Short Film Production

**1.5 hours lecture, 4.5 hours lab, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 141 with a grade of "C" or better, or equivalent.

This course is a hands-on study of short 3-dimensional film production. Students develop and produce a short animated film. This course is designed for multimedia students and students seeking employment in the entertainment industry. This course may be taken up to four times with significant software updates. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on***

*page 256. Please refer to the class schedule and/or see the dean or department chair for availability.*

## Music (MUSI)

### 100 Introduction to Music

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This is a survey course designed to develop listening perception through lectures, recordings, films and concerts. The conceptual and stylistic differences in music from various periods and cultures will be examined through discussion of the elements of music as well as through discussions of ethnic, jazz, vocal instrumental and 20th century music. This course is designed to support students in all majors who are interested in satisfying the general education requirements for Arts and Humanities. (FT) AA/AS; CSU; UC.

### 101 Music History I: Middle Ages to Mid 18th Century

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Music 150A with a grade of "C" or better, or equivalent.

This course is a study of Western (European) music from the Middle Ages through the middle of the 18th century. Emphasis is on aural and visual recognition of style, form, and other musical elements, examined through representative works of composers of each historical period. This course is designed for but not limited to music majors. (FT) AA/AS; CSU; UC.

### 102 Music History II: Mid 18th to Early 20th Century

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Music 150A, with a grade of "C" or better, or equivalent.

This course is a study of Western (European) music from the middle of the 18th century through the early 20th century. Emphasis is on aural and

visual recognition of style, form, and other musical elements examined through representative works of major composers of each historical period. This course is designed for but not limited to music majors. (FT) AA/AS; CSU; UC.

### 105 Music of Our Time

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of music history and music current affairs from 1900 to the present day. Methods and issues that innovative musical artists have faced or currently face are examined. The nature of the compositional act as it has evolved over the past 100 years is also explored. Students study a wide variety of styles, forms and media of musical output in this historical period from as many different perspectives as possible. This course is designed for both the general student as well as students who intend to further their music studies. (FT) AA/AS; CSU; UC.

### 109 World Music

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This music survey course explores the music cultures of Asia, the Middle East, Africa, Central and South America, the Caribbean and other areas with resident populations in San Diego. Musical practices and perspectives from several music cultures are studied with an emphasis on understanding and appreciation from non-ethnocentric viewpoints. Listening perception is developed through lectures and multimedia presentations. The course is intended to satisfy general education requirements for Arts and Humanities and satisfies the San Diego Community College District's Multicultural Course Studies requirement. (FT) AA/AS; CSU; UC.

### 110 Music for Elementary School Teachers

**2.5 hours lecture, 1.5 hours lab, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course prepares students to teach music as part of the curriculum in the elementary school classroom, the preschool or day-care program.

Students develop an understanding of musical concepts primarily by singing and playing an instrument, and practice using lesson plans for teaching these concepts to children.(FT) AA/AS; CSU.

### 111 Jazz - History and Development

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a survey of the history and development of jazz in the United States. Emphasis is placed on the origins of jazz, the variety of styles that developed throughout the twentieth century, current trends and outstanding performers and composers. (FT) AA/AS; CSU; UC.

### 115A Class Piano I

**.5 hours lecture, 1.5 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course introduces basic skills to music majors whose theoretical and practical keyboard skills are deficient, and to non-music majors who have had little or no experience at the piano. This course focuses on developing repertoire, sight reading, transposition, harmonization, creative composition, and modulation techniques. (FT) Transfer credits: CSU; UC.

### 115B Class Piano II

**.5 hours lecture, 1.5 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 115A with a grade of "C" or better, or equivalent.

This course is a continuation of Music 115 A, with an emphasis on moderately difficult techniques in developing repertoire, keyboard techniques, sight-reading, transposition, harmonization, creative composition, improvisation, ensemble playing, and modulation techniques. This course is appropriate for music majors whose theoretical and practical keyboard skills are deficient as well as for non-music majors. (FT) AA/AS; CSU; UC.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

**116A College Piano I**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 115A. This course is an introduction to theoretical and practical piano and keyboard skills. Emphasis is placed on developing repertoire, articulations, sight reading, transposition, harmonization, and consistency of tempo. This course is designed for music majors and all students interested in developing fundamental piano and keyboard skills. (FT) AA/AS; CSU; UC.

**116B College Piano II**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 116A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 115B. This is the second course in the college piano sequence. Emphasis is placed on basic piano and keyboard experience through music reading, notation, scales, chords and their inversions, transposition, and sight-reading. Students play a repertoire of beginning and intermediate songs and piano literature, with emphasis on keyboard harmony. This course is designed for music majors and all students interested in developing fundamental piano and keyboard skills. (FT) AA/AS; CSU; UC.

**120 Beginning Voice Class**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 120A. Beginning Voice Class is an introductory study of efficient vocal production and performance. Beginning exercises for breath management, extending the vocal range, increasing vocal resonance and volume, and singing in an expressive manner are introduced. Vocal exercises and solos are performed to demonstrate these skills. Choral

singers, all music majors and students considering music as a major benefit from this class. (FT) AA/AS; CSU; UC.

**121 Intermediate Voice**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 120 or Music 137, each with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 120B. Intermediate Voice is an in-depth study of specific elements of efficient vocal technique and performance. These include vowel purity, the International Phonetic Alphabet (IPA) to sing Italian songs, belt singing, and managing stage fright. Vocal exercises and songs from various music styles are performed, including selections made by students. Choral singers, all music majors, elementary education majors and students considering singing as a profession benefit from this class. (FT) AA/AS; CSU; UC.

**123 Recital Hour**

**1.5 hours lab, .5 unit  
Grade Only**

This course offers a series of live musical events in a variety of styles, including traditional classical music as well as music from diverse cultures. Presentations feature well-known international performers, music faculty, and music student performers. Students in this course participate by active listening and completing a workbook that describes and assesses their musical experiences and perceptions. No musical experience is assumed or required. This course is required for music majors seeking an associate degree. The content of this course will differ each semester. This course may be taken four times for credit. (FT) AA/AS; CSU.

**125 Music, The Arts, and Humanity**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a multi-cultural, multimedia approach to the living musical, expressive and ceremonial art forms and cultural context of the major continents. Cultures in the United States that have been



traditionally under represented in the curriculum will be emphasized. AA/AS; CSU; UC.

### 132A Classical Guitar I

**0.5 hours lecture, 1.5 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* Music 150A with a grade of "C" or better, or equivalent.

This is the first of a two-semester sequence of courses that present the study of classical guitar. The beginning course introduces basic skills to students who have had little or no experience with the guitar. The course is intended for students who are interested in learning the fundamentals of classical guitar and elementary music skills. This course focuses on developing right and left-hand technique and sight-reading. Lectures are followed by practical application on the instrument. (FT) AA/AS; CSU; UC.

### 132B Classical Guitar II

**.5 hour lecture, 1.5 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 132A with a grade of "C" or better, or equivalent.

This is the second in a two-semester sequence of study of classical guitar. In this course students are introduced to a set of broad-ranging technical skills, including mastery of the fretboard, chord chart reading, and sight-reading. This course also introduces level-appropriate literature, including works from several periods and styles, with an emphasis on interpretation skills. Lectures are followed by practical application on the instrument. Students apply the skills and techniques developed in this class in live performances. (FT) AA/AS; CSU; UC.

### 150A Basic Musicianship

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

This course is designed for music majors as well as non-music majors. It enables the student to develop perceptions in sight and sound as related to the symbols of rhythmic, melodic, and harmonic notation. It will also enable the student to develop skill in writing, major, minor, and chromatic scales, chord construction and intervals; and to identify terms used to indicate tempo and dynamics. (FT) AA/AS; CSU; UC.

### 158A Music Theory I

**4 hours lecture, 4 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 150A with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in: Music 268A.

This course is an intensive study of diatonic harmony in major and minor modes and includes structural and stylistic analysis of music from the period 1600-1750. The emphasis is on development of four-part writing skills within the context of functional diatonic tonality; the interpretation of figured bass symbols, melodic construction and its interaction with harmony, rhythm and structure. This course is designed for the student pursuing music as a major or for the student interested in enhancing technical knowledge of music. (FT) AA/AS; CSU; UC.

### 158B Music Theory II

**4 hours lecture, 4 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 158A with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in: Music 268B.

This course is a continuation of 158A. It is an intensive study of diatonic harmony in major and minor modes and includes structural and stylistic analysis of music of the "common practice" period (1700-1900). The emphasis is on continued development of four-part writing skills using seventh and borrowed chords, the process of modulation; melodic construction using non-harmonic tones; analysis of Bach Chorales and of binary and ternary forms. This course is designed for the student pursuing music as a major or for the student interested in enhancing technical knowledge of music. (FT) AA/AS; CSU; UC.

### 190 The Electronic Music Studio

**2.5 hours lecture, 1.5 hours lab, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and completion of or concurrent enrollment in: Music 150A with a grade of "C" or better, or equivalent.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

This course is a study of recording and electronic music equipment. It is a prerequisite to future work in the electronic music studio and also prepares students for a major in music. The course demonstrates basic techniques using microphones, tape recorders, the mixing board, synthesizers, samplers and music applications such as sequencing on computers. Emphasis is on students' acquisition of basic skills needed for practical application and on acquiring knowledge of simple electronic and acoustic theory, including Musical Instrument Digital Interface (MIDI). Students design and create special projects using this equipment and proper protocol during lab hours and present their projects in class. (FT) AA/AS; CSU.

**201 Recording Arts**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 190 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and completion of or concurrent enrollment in: Music 150A, with a grade of "C" or better, or equivalent.

This course is a study of advanced acoustics and electronic theory as applied to recording, mixing, and sound processing. The course will demonstrate various applications of advanced tape recording, microphone use, and mixing, such as tape editing, effects processing, music concrete composition, and other techniques for music composition. (FT) AA/AS; CSU.

**202 Computer Music**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 190 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Music 150A with a grade of "C" or better, or equivalent.

This course is a study of the application of contemporary digital technology to the practice of music performance and composition. The emphasis of this course is on the acquisition of computer skills to access and manipulate musical data via MIDI and other digital formats. These skills allow students to digitally sample sounds, control synthesizers and samplers, synchronize computers to tape, sequence music, transcribe and print musical scores and

conceive new techniques for music composition. This course is designed for students who are interested in continuing their education in the Electronic Music Studio. (FT) AA/AS; CSU.

**205A Projects in Electronic Music**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 190 with a grade of "C" or better, or equivalent.

*Advisory:* Music 201 or Music 202 with a grade of "C" or better, or equivalent.

In this course, students create a portfolio of music recordings and/or productions in an electronic music studio. Assigned projects incorporate composition, arranging, engineering, and production applications in a variety of media environments. Students analyze the nature of sound, sound production, sound enhancement, and the resulting music created. (FT) AA/AS; CSU.

**205B Projects in Electronic Music**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 205A with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Music 150A with a grade of "C" or better, or equivalent.

In this course, students expand their portfolio to include music projects /productions for various media applications and industries such as for the Internet, television and cinema. Students analyze the nature of sound, sound production, sound enhancement, and the resulting music and sound recordings created. (FT) AA/AS; CSU.

**206A Projects in Composition**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Music 150A with a grade of "C" or better, or equivalent; and completion of or concurrent enrollment in Music 190 (students have the option to create their music with the aid of recording facilities and computer workstations on campus if they are currently enrolled in or have passed Music 190 with a grade of "C" or better, or equivalent).

In this course students learn to work efficiently as composers with the added support of constant

positive feedback. This course is not limited to composing in a classical style but addresses broader issues common to all styles and genres. Included are such studies in compositional principles of form and structure, and other issues that enable students to analyze the nature of their musical creativity. The emphasis is on the students' examining from a critical standpoint weaknesses and strengths in their own original compositions as well as that of their peers, and on the students' developing their creative potential. In addition to music majors and students with advanced knowledge of music, this course is intended for any students actively creating their own music. (FT) AA/AS; CSU.

### 206B Projects in Composition

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; and Music 150A with a grade of "C" or better, or equivalent; and completion of or concurrent enrollment in Music 190 (students have the option to create their music with the aid of recording facilities and computer workstations on campus if they are currently enrolled in or have passed Music 190 with a grade of "C" or better, or equivalent).

This course is a companion course to Music 206A and is designed to allow students, with the aid of recording facilities and computer workstations running music software, to pursue their work as composers. This course is not limited to composing in a classical style but addresses broader issues common to all styles and genres. Included are such studies in compositional principles of balance, texture, dramatic emphasis and other issues that enable students to analyze the nature of their musical creativity. Upon completion of the Music 206 course sequence students have a portfolio of original music. In addition to music majors and students with advanced knowledge of music, this course is intended for any students actively creating their own music. (FT) AA/AS; CSU.

### 209 Electronic Music Studio Internship

**4 hours lab, 1 unit**

**Grade Only**

*Prerequisite:* Music 190 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: Music 201 or Music 202 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

This course allows advanced students in recording arts and computer music to get credit for assisting others in the Electronic Music Studio lab. After audition students are assigned to assist beginning and intermediate students from other classes working in the Electronic Music Studio lab. In this way students reinforce their knowledge and skills by guiding and mentoring others on the basis of what they had learned by seeing and doing in previous courses. This course may be taken four times for credit. (FT) AA/AS; CSU.

### 212 Vocal Ensemble

**1 hour lecture, 3 hours lab, 2 units**

**Grade Only**

*Advisory:* Music 120 and 268A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

Students must audition to enroll in this class. This course is not open to students with previous credit for Music 212 A, B, C and D.

The Vocal Ensemble is an intermediate choral ensemble that focuses on developing music-reading and vocal skills in the preparation and performance of a wide variety of choral works. Enrollment is by audition. Members are expected to have some previous choral, and vocal experience. This course may be taken four times for credit so that students have the opportunity to improve their rehearsal and performance skills by performing new repertoire each semester. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

### 212A Vocal Ensemble I (Men and Women)

**1 hour lecture, 4 hours lab, 2 units**

**Letter Grade or Pass/No Pass Option**

Emphasizing vocal ensemble singing, sight-reading and the study of vocal chamber music chosen from the Renaissance period to the present day, and including the popular idiom. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable

**212B Vocal Ensemble II (Men and Women)**  
**1 hour lecture, 4 hours lab, 2 units**  
**Letter Grade or Pass/No Pass Option**

Continuation of Music 212A. Emphasizing vocal ensemble singing, sight-reading and the study of vocal chamber music chosen from the Renaissance period to the present day, and including the popular idiom. Attendance at all rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**212C Vocal Ensemble III (Men and Women)**  
**1 hour lecture, 4 hours lab, 2 units**  
**Letter Grade or Pass/No Pass Option**

Continuation of Music 212B. Emphasizing vocal ensemble singing, sight-reading and the study of vocal chamber music chosen from the Renaissance period to the present day, and including the popular idiom. Attendance at all rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**212D Vocal Ensemble IV (Men and Women)**  
**1 hour lecture, 4 hours lab, 2 units**  
**Letter Grade or Pass/No Pass Option**

Continuation of Music 212C. Emphasizing vocal ensemble singing, sight-reading and the study of vocal chamber music chosen from the Renaissance period to the present day, and including the popular idiom. Attendance at all rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**213A Jazz Theory for Piano I**  
**4 hours lecture, 4 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 115A and 150A, each with a grade of "C" or better, or equivalent.

This course is an introduction to the theoretical foundations of jazz. Emphasis is placed on a systematic examination of scales, hybrid modes, chord construction, chord notation, and chord/scale relationships and applications. Topics also include melodic and harmonic construction. This course is designed for music majors and anyone interested in jazz theory for the piano. (FT) AA/AS; CSU.

**213B Jazz Theory For Piano II**  
**4 hours lecture, 4 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 213A with a grade of "C" or better, or equivalent.

This course is an advanced-level study of jazz theory for the piano. Emphasis is placed on providing students with advanced jazz theory and its practical applications to jazz standards as well as American

Songbook and contemporary jazz tunes. This course is designed for music majors and students interested in jazz theory. (FT) AA/AS; CSU.

**214A Concert Choir I (Men and Women)**  
**1 hour lecture, 2 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

Emphasis on sight-reading skills and the study and performance of a wide range of choral music. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**214B Concert Choir II (Men and Women)**  
**1 hour lecture, 2 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

Continuation of Music 214A. Emphasis on sight-reading skills and the study and performance of a wide range of choral music. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**214C Concert Choir III (Men and Women)**  
**1 hour lecture, 2 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

Continuation of Music 214B. Emphasis on sight-reading skills and the study and performance of a wide range of choral music. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**214D Concert Choir IV (Men and Women)**  
**1 hour lecture, 2 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

Continuation of Music 214C. Emphasis on sight-reading skills and the study and performance of a wide range of choral music. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**215A Class Piano III**  
**.5 hours lecture, 1.5 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 115B with a grade of "C" or better, or equivalent.

This course is an intermediate level of study of practical and theoretical keyboard techniques for music majors, credential applicants, and non-music majors with comparable skills. The course focuses on intermediate skill development of repertoire, keyboard technique, sight-reading, transposition, harmonization, creative composition, improvisation, ensemble playing, and modulation techniques. (FT) AA/AS; CSU; UC.

**215B Class Piano IV****.5 hours lecture, 1.5 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 215A with a grade of "C" or better, or equivalent.

This course is an advanced level of study of practical and theoretical keyboard techniques for music majors, credential applicants, and non-music majors with comparable skills. The course focuses on advanced skill development of repertoire, keyboard technique, sight-reading, transposition, harmonization, creative composition, improvisation, ensemble playing, and modulation techniques. (FT) AA/AS; CSU; UC.

**216 College Piano III****1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 115B or Music 116B, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 215B.

This course is an intensive study of practical and theoretical keyboard techniques. Emphasis is placed on music reading, notation, scales, chords, harmonization and sight-reading. Students play intermediate level piano literature and four-part scores. This course is designed for music majors and all students who want to deepen their piano skills. (FT) AA/AS; CSU; UC.

**240 Advanced Voice Class I****1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 121 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 240A. Advanced Voice I is an in-depth study of specific elements of efficient vocal technique and performance. These include breath management in relation to posture, expressive singing via physical movement, unifying the register and range extension, resonance and vocal registers, expressive singing and stage presence. Vocal exercises and songs from various music styles are performed including selections made by students. Choral singers, all music majors, elementary education

majors and students considering singing as a profession benefit from this class. (FT) AA/AS; CSU; UC.

**241 Advanced Voice II****1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 240 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 240B. Advanced Voice II is an in-depth study of specific elements of efficient vocal technique and performance. These include breath management using an efficient onset and release, managing the performance, resonance balancing using consonants, and song analysis to prepare a vocal piece for performance. Choral singers, all music majors, elementary education majors and students considering singing as a profession benefit from this class. (FT) AA/AS; CSU; UC.

**250A Concert Band****3 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* Music 150A with a grade of "C" or better, or equivalent.

Study and performance of concert and standard band literature as well as other literature to be arranged. (FT) AA/AS; CSU; UC.

**250B Concert Band****3 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* Music 150A with a grade of "C" or better, or equivalent.

Study and performance of concert and standard band literature as well as other literature to be arranged. (FT) AA/AS; CSU; UC.

**250C Concert Band****3 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* Music 150A with a grade of "C" or better, or equivalent.

<p><b>AA/AS</b> = Associate Degree Applicable  <b>CSU</b> = California State University Applicable  <b>UC</b> = University of California Applicable</p>
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Study and performance of concert and standard band literature as well as other literature to be arranged. (FT) AA/AS; CSU; UC.

**250D Concert Band**

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Music 150A with a grade of "C" or better, or equivalent.

Study and performance of concert and standard band literature as well as other literature to be arranged. (FT) AA/AS; CSU; UC.

**252 Concert Jazz Band**

**3-9 hours lab, 1-3 units**

**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Audition/Try Out.

A selected group of limited membership devoted to the preparation and performance of the best contemporary jazz and stage band literature. Designed to meet the needs of the student desiring to enter the field of professional stage band work, but open to qualified students of any department of the college. The group gives public concerts and supplies music for college functions. Attendance at rehearsals and performances is an integral part of this course. (FT) AA/AS; CSU; UC.

**253A Ensembles I**

**3-9 hours lab, 1-3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Music 150A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

This course is a study of ensemble music performance at the beginning level. Students are seated in ensemble groups according to their technical ability in preparation for performance. This course may be taken two times with new repertoire, seating and skill advancement. This course is designed for music majors and anyone interested in playing with an ensemble. (FT) AA/AS; CSU; UC.

**253B Ensembles II**

**3-9 hours lab, 1-3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 253A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

This course is a study of ensemble music performance at the intermediate level. Students are seated in ensemble groups according to their technical ability in preparation for performance. This

course may be taken two times with new repertoire, seating and skill advancement. This course is designed for music majors and anyone interested in playing with an ensemble. (FT) AA/AS; CSU; UC.

**253C Ensembles III**

**3-9 hours lab, 1-3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 253B with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

This course is a study of ensemble music performance at the intermediate-advanced level. Students are seated in ensemble groups according to their technical ability in preparation for performance. This course may be taken two times with new repertoire, seating and skill advancement. This course is designed for music majors and anyone interested in playing with an ensemble. (FT) AA/AS; CSU; UC.

**253D Ensembles**

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 253C with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

This course is a study of ensemble music performance at the advanced level. Advanced students are assigned to first chair of each section of the ensemble and to lead each part. This course may be taken two times with new repertoire, seating and skill advancement. This course is designed for music majors and anyone interested in playing with an ensemble. (FT) AA/AS; CSU; UC.

**254 Instrumental Ensemble**

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Music 150A with a grade of "C" or better, or equivalent.

A selected group of limited membership devoted to the preparation and performance of the best contemporary jazz and stage band literature. The group is a performance band. (FT) AA/AS; CSU; UC.

**255 Classical Guitar Ensembles**

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 132B with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

This course provides for the study and performance of selected guitar ensemble works. After an audition, each student is assigned to an ensemble. Students practice and perform in an intermediate-to-advanced guitar ensemble, focusing on developing their skills in reading music, as well as the technical and interpretative skills required in the performance of a wide variety of works from different historical eras. This course can be taken four times for credit. The course topics will be different with each repetition as the musical repertoire presented and performed differs each time the course is offered. Attendance at classes, rehearsals and performances is required. (FT) AA/AS; CSU; UC.

### **258A Music Theory III**

**4 hours lecture, 4 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 158B with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in: Music 269A. This course is a continuation of 158B. It includes a detailed structural analysis and study of compositional techniques in the music of the 18th and 19th centuries. The emphasis is on further development of writing skills using chromatic harmony including secondary dominants and altered chords; the analysis and writing of two-part tonal counterpoint; the analysis of Sonata-form, Rondo, Theme and Variations. This course is designed for the student pursuing music as a major or for the student interested in enhancing technical knowledge of music. (FT) AA/AS; CSU; UC.

### **258B Music Theory IV**

**4 hours lecture, 4 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 258A with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in: Music 269B. This course is a continuation of 258A. It includes a detailed structural analysis and study of compositional techniques in the music of the 19th and 20th centuries. The emphasis is on the study of the new resources that emerged in the music of the late 19th and early 20th centuries including non-functional harmony, polytonality, atonality and serial techniques; analysis of music by Wagner, Debussy, Stravinsky and Schoenberg. This course is designed for the student pursuing music as a major or for the student interested in enhancing technical knowledge of music. (FT) AA/AS; CSU; UC.

### **268A Beginning Ear Training Laboratory I**

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 150A with a grade of "C" or better, or equivalent.

This course consists of laboratory work in sight singing, melodic dictation, harmonic identification and rhythmic dictation designed to provide students with a "hearing eye" and "seeing ear" that can perceive and identify patterns both large and small in music. The emphasis is on the development of basic skills in sight singing short scale wise melodies containing seconds, thirds, fourths, fifths and octaves, melodic dictation containing seconds, thirds, fourths, fifths and octaves, harmonic identification/dictation of primary triads in major keys, rhythmic dictation with duple and triple subdivisions of the beat. This course is designed for the student pursuing music as a major or for the student interested in enhancing technical knowledge and skills. (FT) AA/AS; CSU; UC.

### **268B Beginning Ear Training Laboratory II**

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 268A with a grade of "C" or better, or equivalent.

This course is a continuation of Music 268A. The emphasis is on continued development of skills in sight singing melodies which contain seconds, thirds, fourths, fifths, sixths, sevenths, octaves and the tritone; melodic dictation containing triadic arpeggiations, harmonic identification of all diatonic triads in major and minor keys; rhythmic dictation with half beat values, quarter beat values and syncopation. This course is designed for the student pursuing music as a major or for the student interested in enhancing technical knowledge and skills. (FT) AA/AS; CSU; UC.

### **269A Advanced Ear Training Laboratory III**

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 268B with a grade of "C" or better, or equivalent.

This course is a continuation of Music 268B. The emphasis is on further development of skills in sight singing melodies which contain all intervals; melodic

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dictation which contains modulation; harmonic identification of all diatonic seventh chords and harmonic dictation of chorale phrases which modulate; rhythmic dictation with quarter and eighth beat values and in compound meters. This course is designed for the student pursuing music as a major or for the student interested in enhancing technical knowledge and skills. (FT) AA/AS; CSU; UC.

**269B Advanced Ear Training Laboratory IV**  
**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 269A with a grade of "C" or better, or equivalent.

This course is a continuation of Music 269A. The emphasis is on the refinement of skills in sight singing modal melodies and melodies containing larger leaps and non-diatonic tones; dictation of melodies with non-diatonic tones and modal melodies; harmonic identification of secondary dominants and augmented sixth and neapolitan sixth chords; rhythmic dictation with changing meters and super triplets. This course is designed for the student pursuing music as a major or for the student interested in enhancing technical knowledge and skills. (FT) AA/AS; CSU; UC.

**275A-B-C-D Applied Music**  
**1 hour lecture, 6 hours lab, 2 units**  
**Grade Only**

*Prerequisite:* Music 150A with a grade of "C" or better, or equivalent.

*Corequisite:* Music 212A or 212B or 212C or 212D or Music 214A or 214B or 214C or 214D or Music 250A or 250B or 250C or 250D or Music 252 or 253 or 254. This course provides individual instruction in vocal or instrumental music and is designed primarily for music majors. It includes two hours per week of recital instruction. A minimum of 15 lessons per semester, as well as 5 hours of on-campus practice per week must be verified. Regular performance in the weekly lecture-recital class and participation in music department recitals is required. Examination will be by faculty-jury at the end of each semester. (FT) AA/AS; CSU; UC.

**276A Individual Study**  
**Hours by Arrangement, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course consists of off-campus private instruction designed for music majors and those meeting teaching credential performance requirements in voice or on an instrument. This course is taught by approved off-campus instructors whose activities are coordinated and evaluated jointly with on-campus music faculty through weekly performance sessions and a final semester jury examination. For conditions of enrollment see a member of the music faculty. (FT) AA/AS; CSU; UC.

**276B Individual Study**  
**Hours by Arrangement, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

Continuation of Music 276A; refer to Music 276A for detailed description. (FT) AA/AS; CSU; UC.

**276C Individual Study**  
**Hours by Arrangement, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

Continuation of Music 276B; refer to Music 276A for detailed description. (FT) AA/AS; CSU; UC.

**276D Individual Study**  
**Hours by Arrangement, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

Continuation of Music 276C; refer to Music 276A for detailed description. (FT) AA/AS; CSU; UC.

**290 Independent Study**  
**Hours by Arrangement, 1-3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Course is designed to meet individual needs or interests of students who wish to work on special projects in music. Special projects include all aspects of music and may involve topics which are broad in scope along with those that are narrow in scope. Special projects may include an unlimited number of diversified phases of the music curricula. This course



may be taken four times with different content for a maximum of six units. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Nutrition (NUTR)

### 89 Modified Diets

**2 hours lecture, 2 units  
Grade On**

*Prerequisite:* Nutrition 150 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skills Levels R5 and W5; Mathematics 34A with a grade of "C" or better, or equivalent or Assessment Skill Level M20.

*Limitation on Enrollment:* This course is not open to students with previous credit for Nutrition 180 with a grade of "C" or better. This course is not open to students with previous credit for Nutrition 90. This course is the study of the concepts of nutrition as they relate to the functioning of nutrients in the human body. Emphasis is placed on specific nutritional and dietary modifications required for a variety of common medical conditions. This course is designed for the student planning on employment as a dietetic service supervisor. (FT) Associate Degree Credit only and not Transferable.

### 91 Directed Clinical Practice

**150 - hours other, 2 units  
Grade Only**

*Prerequisite:* Nutrition 150 with a grade of "C" or better, or equivalent and Culinary Arts/Culinary Management 101 with a grade of "C" or better, or equivalent.

*Corequisite:* Nutrition 90 or Nutrition 180.

*Advisory:* Mathematics 34A with a grade of "C" or better, or equivalent or Assessment Skill Level M20 and English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Nutrition 391. This directed clinical practice course applies previously learned knowledge and skills through supervised dietary services at a healthcare facility. The supervision of the student is shared by the college faculty and the staff of the affiliating institution. This course is for students enrolled in the Dietetic Service Supervisor program, certified by the California State Department of Public Health for long term care food service. (FT) Associate Degree Credit only and not Transferable.

### 150 Nutrition

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level W6 and R6 and Mathematics 34A with a grade of "C" or better, or equivalent or Assessment Skill Level M20.

This course is a study of the scientific concepts of nutrition relating to the functioning of nutrients within the human body. Emphasis is placed on nutritional needs throughout the life cycle, food source of nutrients, and current nutritional issues. Students utilize computer technology to analyze dietary intake and evaluate nutritional status. Included is a personal dietary analysis indicating nutritional issues. Students operated computer assisted program available. This course is intended for students majoring in nutrition and all students interested in the science of nutrition. AA/AS; CSU; UC Transfer Limitation: Nutrition (NUTR) 150 and 155 combined: maximum credit, one course.

### 153 Cultural Foods

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49 each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Culinary Arts/Culinary Management 150.

This course examines the regional, ethnic, cultural, religious, historical and social influences on food patterns and cuisine, as well as how food is viewed as an expression of cultural diversity.

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Traditional foods of geographic areas and cultures, geographic factors in food availability, global food issues, dietary habits, religious influences and an overview of nutritional problems of ethnic groups are discussed and assessed. Connection is drawn between major historical events and how and why these events affected and defined the culinary traditions of different societies. Also presented are nutrition consequences of ethnic food choices, sanitation and safety practices, and applications of food and nutrition services. This course is for students interested in a career in nutrition, dietary service supervisor certificate, culinary, hospitality management, and those with an interest in ethnic cuisine. (FT) AA/AS; CSU; UC.

### 155 Advanced Nutrition

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Nutrition 150 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20.

This course is an in-depth study of the functioning of nutrients in the basic life processes from a biochemical and cellular approach. Emphasis is placed on the investigation of certain diets in relation to disease, current legislation relating to nutritional issues, and consumer nutritional practices. This course is intended for Nutrition and Allied Health majors. (FT) AA/AS; CSU; UC Transfer Limitation: Nutrition (NUTR) 150 and 155 combined: maximum credit, one course.

### 160 Foods for Healthy Lifestyles

**48 - 54 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5; Mathematics 34A with a grade of "C" or better, or equivalent or Assessment Skill Levels M20.

This course emphasizes scientific concepts of nutrition and food relating to health promotion. Health benefits and food sources of nutrients, healthy food preparation and food technologies are discussed. This class is intended for students majoring in nutrition and all students interested in attaining or promoting good health through nutrition. (FT) AA/AS; CSU.

### 170 Nutrition and Fitness

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5; Mathematics 34A with a grade of "C" or better, or equivalent or Assessment Skill Levels M20.

This course is a practical study of sports and nutrition. Emphasis is placed on the role of nutrition and enhanced performance. Students evaluate their nutritional needs during various stages of exercise. Topics include carbohydrate loading, use of supplements, determination of body composition. This course is intended for nutrition majors, athletes and all students interested in health and fitness. (FT) AA/AS; CSU.

### 180 Nutrition and Diet Therapy

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels W6 and R6; Mathematics 34A with a grade of "C" or better, or equivalent or Assessment Skill Level M20.

This course is a study of the concepts of nutrition in relationship to diet therapy. Emphasis is placed on nutrition assessments of individuals with various diseases and/or conditions and related therapeutic diets. Topics include nutritional support for patients who cannot or will not eat and drug/nutrient interactions. This course is intended for nutrition and allied health majors. (FT) AA/AS; CSU.

### 270 Work Experience

**Hours by Arrangement (One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work.), 1-4 units  
Grade Only**

A program of on-the-job learning experiences for students employed in a job related to their major or their educational goals. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Office Information Systems (OFCE)

See Computer Business  
Technology (CBTE), page 313.

### Personal Growth (PERG)

#### 65 Orientation to College

.5 - 1 hour lecture, .5 - 1 unit  
Pass/No Pass Only

This course is designed to assist the new student in a successful transition to college. Topics include campus resources and services, time management, and educational planning. Students are also acquainted with Policy 3100, which enumerates the rights and responsibilities of all San Diego Community College District students. (FT) Associate Degree Credit only and not Transferable.

#### 120 College Success and Lifelong Learning

3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Personal Growth 127.

This course teaches success strategies to enhance academic and lifelong learning skills. Students explore topics such as motivation and attitudes, values, goal setting, decision-making processes, critical and creative thinking, personal health topics, interpersonal communication, developmental psychology, and learning and personality theories, as well as other techniques for maximizing their abilities to succeed as lifelong learners. Students apply these topics as they relate to their self-development as integrated physiological and psychological entities and acquire strategies to effectively deal with issues in their personal lives and educational and career plans. (FT) AA/AS; CSU; UC.

#### 130 Career-Life Planning

3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option

*Advisory:* Completion of or concurrent enrollment in: English 48 or English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Level R5 or W5.

*Limitation on Enrollment:* This course is not open to students with credit for Personal Growth 30.

This course is designed to assist students with self-exploration, career transitions and career-life planning in order to achieve success in a diverse society. Critical thinking skills will be utilized through a systematic approach to career development by examining values, interests, skills, life roles, personality type, personal self-management, decision-making and goal setting throughout the life span. The course is designed for new and re-entry students and others who can benefit. (FT) AA/AS; CSU.

#### 140 Life Skills and Personal Adjustment

1-3 hours lecture, 1 - 3 units  
Letter Grade or Pass/No Pass Option

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is designed for students who want to learn and acquire effective ways for developing their emotional, social, educational, and professional life skills. This course is a practical study of the principles and application of strategies that assist in the development of coping and life skills. Topics include self-esteem and compassion, self-discipline, self-responsibility, self-assertion, and living a consciously balanced life in pursuit of defined educational, career, and life goals. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

### Philosophy (PHIL)

#### 100 Logic and Critical Thinking

3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

**AA/AS** = Associate Degree Applicable  
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This course explores the relationship of communications and critical thinking with a focus on good reasoning and the impediments to its mastery. This course emphasizes the development of skills in logical processes including familiarity with the more common fallacies. This course is designed for students learning to apply principles of critical thinking to the practical problems of everyday life. (FT) AA/AS; CSU; UC.

### 101 Symbolic Logic

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Philosophy 100 with a grade of "C" or better, or equivalent.

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent or Assessment Skill Level W6 and R6 and Mathematics 96 with a grade of "C" or better, or equivalent or Assessment Skill Level M50. This course is a study of the elements of symbolic logic, sentential calculus and quantification theory. Topics include identity, definite descriptions, natural deduction and structure of language. This course is intended for philosophy majors and students pursuing studies in computer science. (FT) AA/AS; CSU; UC.

### 102A Introduction To Philosophy: Reality and Knowledge

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course is an introductory study of the aims, methods, types and problems of philosophy and philosophical inquiry. Emphasis is placed on the nature of reality and knowledge. Materials for this survey of philosophy may draw from classical and contemporary thinkers. Students are encouraged to articulate, analyze, and evaluate their own beliefs/positions in the context of meaningful philosophical inquiry. This course is intended for anyone concerned with human existence and humanity's place in the universe. (FT) AA/AS; CSU; UC.

### 102B Introduction to Philosophy: Values

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course provides an introductory study of the aims, methods, types and problems of philosophy and philosophical inquiry focusing on values and their place in an individual's daily life. Materials for this survey of philosophical activity, orientations and views of philosophers may be drawn from classical and contemporary thinkers. Students are encouraged to articulate, analyze and evaluate their own beliefs/positions in the context of meaningful philosophical inquiry regarding value theory. (FT) AA/AS; CSU; UC.

### 103 Historical Introduction to Philosophy

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course provides an introductory study of the aims, methods, issues and problems associated with philosophy and philosophical activity from an historical perspective. Readings and discussions in the course emphasize a study of the philosophical endeavors of major philosophers in their historical contexts. Materials for this survey of philosophical activity, orientations and view of philosophers may be drawn from classical and contemporary thinkers. Students are encouraged to articulate, analyze and compare their own beliefs/positions with historically significant philosophical theories. This course may be of interest to students pursuing studies in History and Humanities. (FT) AA/AS; CSU; UC.

### 104A History of Western Philosophy

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course explores the issues and problems associated with philosophy and philosophical activity as they are illustrated in the history of Western philosophy. Studies in this course focus on representative thinkers of the Classical and/or Medieval periods, their cultural milieu, and their attempts to resolve perennial philosophical issues and problems. This course may be of interest to students pursuing studies in History and Humanities. (FT) AA/AS; CSU; UC.

**104B History of Western Philosophy****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course explores the problems associated with philosophy and philosophical activity as they are illustrated in the history of Western philosophy from the Renaissance period through the 19th Century. Studies in this course focus on representative thinkers of the Renaissance and/or Modern periods, their cultural milieu, and their attempts to resolve perennial philosophical issues and problems. This course may be of interest to students pursuing studies in History and Humanities. (FT) AA/AS; CSU; UC.

**106 Asian Philosophy****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course explores the aims, methods, issues and problems exemplified in Asian philosophy and philosophical activity. Studies in this course survey significant inquiries, orientations and perspectives exemplified in Asian philosophy as well as Asian perspectives on perennial questions relating to the nature of the universe, the status and meaning of mankind, and the qualities characterizing the good life. Students are encouraged to engage in independent research, analysis and formulation. This course may be of special interest to students pursuing Pacific Rim or International Studies. (FT) AA/AS; CSU; UC.

**107 Reflections on Human Nature****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6 or English 105 with a grade of "C" or better, or equivalent.

This course is an introductory study of the issues and problems exemplified in the process of meaningful philosophical activity relating to the topic of human nature. Students in this course survey representative theories and philosophical reflections relating to the notions of human nature, the individual person, and human characteristics in general. Material for this survey may be drawn from classical and

contemporary thinkers or scientific and religious orientations. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in behavioral and/or social sciences. (FT) AA/AS; CSU; UC.

**108 Perspectives on Human Nature and Society****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course explores the topics of human nature and human societal configurations. Material for study may be selected from classical and contemporary thinkers. Studies in this course survey representative theories and philosophical reflections that explore the relation between theories regarding human nature and the nature of society, the state, and government with an emphasis on experiential elements of meaningful human existence and notions of ideal society. This course may be of particular interest to students pursuing studies in behavioral, social or political science. (FT) AA/AS; CSU; UC.

**109 Issues in Social Philosophy****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course explores the aims, methods, and problems exemplified in philosophical endeavors in social philosophy. Studies in this course survey representative theories and perspectives on issues of interest in social philosophy such as types of government, the issues of sovereignty, natural law and natural rights, the philosophy of law, issues of justice, and problems in social ethics. This course may be of special interest to students pursuing studies in pre-law and/or political, behavioral or social sciences. (FT) AA/AS; CSU; UC.

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**110 Philosophy of Religion****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course explores the issues and problems associated with philosophy and philosophical activity concerning various facets of religious phenomena and religious orientations/beliefs. This course investigates and analyzes philosophical arguments relating to basic religious beliefs and experiences such as the conceptions of God and/or divinity in the monotheistic traditions and non-Western religions. This course may be of interest to students pursuing religious and cultural studies. (FT) AA/AS; CSU; UC.

**111 Philosophy in Literature****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course is designed to provide an introduction to the aims, methods, issues and problems associated with philosophy and philosophical activity. In this course students read and analyze selected classical and/or contemporary literature which portrays or dramatizes perennial philosophical questions, issues and themes relating to such topics as the nature of reality, the notion of the self, the issue of choice and determinism, the problem of good and evil, and characteristics of the good life. This offering may be of interest to students pursuing studies in literature or in the behavioral and/or social sciences. (FT) AA/AS; CSU; UC.

**112 Philosophy of Science****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This is an introductory, general education course exploring the presuppositions, concepts, principles, criteria and methodology of science and scientific investigation. This course is intended for students seeking a basic understanding of the nature of science and its philosophical underpinnings. (FT) AA/AS; CSU; UC.

**125 Philosophy of Women****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This general education course is of interest to students wishing to explore the philosophical study of questions relating to women. It provides an introductory study of concepts of womanhood and feminism as they have found expression in mythic, classic, medieval and major modern philosophical traditions. Images, roles, and beliefs about women are explored with respect to their historical and global impact and philosophical relevance. (FT) AA/AS; CSU; UC.

**126 Introduction to Philosophy of Contemporary Gender Issues****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Level R6 and W6.

This lower division course provides an introduction to the concepts of gender and gender relations for the student interested in the development of contemporary gender issues as they relate to philosophy. The images, roles, and beliefs about gender and gender relations as they vary across cultures will be explored with respect to their impact in our everyday lives and the larger societies within which we live. This course may be of special interest to students going into gender studies and women's studies. (FT) AA/AS; CSU; UC.

**130 Philosophy of Art and Music****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course employs philosophical methods to explore the concepts, principles, and criteria used in the creation and evaluation of art and music. In addition to students interested in philosophy, this course is designed for any student seeking to gain a better understanding of why we appreciate art and music and how we develop standards for evaluating them. A variety of arts may be discussed including painting, sculpture, architecture, design, music, dance, theatre, and literature. (FT) AA/AS; CSU; UC.

## 205 Critical Thinking and Writing in Philosophy

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This critical thinking and writing seminar in Philosophy is designed to enhance the student's critical thinking, writing, and research skills in preparation for upper division academic activity. Issues addressed in this class may involve various areas of human experience and aspiration: metaphysical, cosmological, scientific, political, ethical, aesthetic, and religious. Together with the application of basic principles of deduction and induction, special attention is given to identifying and avoiding fallacies in reasoning and to techniques and aids to research, reasoning, and writing. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

### Physical Education (PHYE)

*Physical Education classes are offered at the beginning, intermediate and advanced level*

#### Physical Education Classes/Intercollegiate Sports - Disclaimer

Participation in all sports and physical education activities involves certain inherent risks.

Risks may include, but are not limited to, neck and spinal injuries that may result in paralysis or brain injury, injury to bones, joints, ligaments, muscles, tendons and other aspects of the muscular skeleton system; and serious injury, or impairment, to other aspects of the body and general health, including death. The San Diego Community College District, its officers, agents and employees are not responsible for the inherent risks associated with participation in physical education classes/intercollegiate sports.

Students are strongly advised to consult a physician prior to participating in any physical education activity.

## Aquatic Activities

A program which offers the student a choice from a variety of courses. Instruction and conditioning in all aspects of aquatics to provide a carry-over value for leisure life.

### 106 Aquatic Fitness

**2 -3 hours lab, 5 - 1 unit**  
**Letter Grade or Pass/No Pass Option**

This course covers instruction and conditioning in the four competitive swimming strokes through interval training stressing cardiovascular respiratory fitness in aquatic activities. The swimming program is set up to attain desired levels of cardiovascular efficiency. This course may be taken four times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 119 Springboard Diving

**2-3 hours lab, 0.5-1 unit**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is designed as an introduction to springboard diving with progressive skill development in performing dives from five different categories. This course includes novice, beginning, intermediate and advanced levels. Standardized skill progressions are used for the forward, backward, inward, reverse and twisting dives. The concepts covered include springboard diving techniques and water safety. This course is intended for anyone interested in diving or Kinesiology Majors. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours per week, the additional time is utilized on individual analysis of technique and performance. This course may be taken four times for credit. (FT) AA/AS; CSU. UC Transfer Limitations. See a Counselor.

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**CSU** = California State University Applicable  
**UC** = University of California Applicable

**139 Lifeguard Training****2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is of interest to students who wish to earn the American Red Cross certifications necessary for employment as a lifeguard. This course gives the most current instruction in the American Red Cross lifeguard training techniques and first aid and cardiopulmonary resuscitation/automated external defibrillation (CPR/AED) skills required to gain eligibility for a lifeguarding position. Upon successful completion, students earn certifications for American Red Cross Lifeguard Training and CPR/AED for the Professional Rescuer. Students may repeat this course to renew certifications. Adequate swimming skills are necessary. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**155 Swimming****2 - 3 hours lab, .5 - 1 unit  
Letter Grade or Pass/No Pass Option**

This course emphasizes instruction and practice in the fundamental to advanced swimming strokes including water safety skills. Stroke analysis, conditioning and endurance are stressed in the progression of classes. Beginning and intermediate levels are available. This course may be taken four times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**163 Water Polo****2 - 3 hours lab, .5 - 1 unit  
Letter Grade or Pass/No Pass Option**

This course is designed to emphasize the fundamental skill development related to the aquatic sport of water polo. Progressive skill development includes picking up a ball in the water, passing, receiving, shooting, dribbling, and playing in a game. Discussion includes proper offensive and defensive positioning, team strategies, and rules of play. This course may be taken four times for credit. (FT) AA/AS; CSU; UC Transfer Course Limitation. See a Counselor.

**164 Water Safety Instructor****2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

This course gives the most current instruction in the American Red Cross (ARC) Water Safety Instructor (WSI) course. Upon successful completion, students

earn WSI certification, which enables them to teach the Learn to Swim programs of the American Red Cross. This course may be repeated as necessary to meet a legally mandated training requirement as a condition of continued or volunteer employment. Adequate swimming skills are necessary. (FT) AA/AS; CSU; UC.

**Dance**

A program which offers the student instruction in a variety of dance forms. Classes range from the beginning level through the performance level.

**103 Aerobic Dance****2 - 3 hours lab, .5-1 unit  
Letter Grade or Pass/No Pass Option**

This rigorous aerobic dance course is designed to increase both fitness levels and awareness of what constitutes a safe and effective exercise program. Instruction includes a balanced program of aerobics, toning, stretching, relaxation and related health topics. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours per week, the additional time is utilized for skill development and enhanced cardio-vascular fitness. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**Additional Dance Classes**

(See Dance, page 326)

**Individual Activities**

A basic program which offers the student a choice of vigorous, competitive activity in individual sports and activities designed to provide carry-over value for leisure life. Instruction is in fundamental skills knowledge of rules and strategy, with emphasis on physical fitness.

**108 Badminton****2-3 hours lab, .5 - 1 unit  
Letter Grade or Pass/No Pass Option**

This course provides instruction and on-court experience in the skills, strategies, rules and behaviors necessary to play badminton at the beginning, intermediate or advanced level and is intended for novices and students currently playing at any of these levels. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with



each repetition. When this course is offered for three hours per week, the additional time is utilized for stroke development drills and application of strategies in playing situations. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 115 Bowling

**2 - 3 hours lab, .5-1 unit**

**Letter Grade or Pass/No Pass Option**

This course is designed to develop bowling skills. Emphasis is placed on stance, point of origin, approach, back swing, release and follow through. Topics include rules, scoring and etiquette in the game of bowling. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course offered for three hours per week, the additional time is utilized for spot bowling and participation in league bowling situations. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 120 Fencing

**2 - 3 hours lab, .5 - 1 unit  
Grade Only**

Basic techniques of fencing with French foil are taught. Techniques such as on guard, advance, retreat, attack and parries (simple and compound), and basic rules are covered. Simple and compound attacks, secondary attacks, counter attacks, circular parries and bouting are stressed in intermediate and advanced classes. Judging and directing of bouts are taught and implemented in the form of tournament matches. Fencing etiquette and proper technique are stressed. Students who are looking for a lifetime sport, rich in tradition and gamesmanship find this course intriguing and challenging, both mentally and physically. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours per week, the additional time is utilized for the practice of advanced skills and techniques. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 123 Fitness Activities

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

This course includes instruction in the skills necessary to improve aerobic fitness and cardiovascular health. Through fitness topics covered, students will develop an individual fitness program. Aerobic exercise focuses primarily jogging,

progressing to running for the development of comprehensive fitness. This course may be taken four times for credit. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 126 Golf

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

This course provides golf instruction and practice in the fundamentals of grip, stance, alignment, backswing, and downswing. Topics also include stretching and principles of warm-up, golf club selection and use, player guidelines, scoring, game etiquette, and safety procedures. The course emphasizes the "one basic golf swing" theory and includes extensive practice and play at local courses. This course may be taken four times for credit. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 132 Individual Conditioning

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

This course provides individually programmed instruction in the fundamental skills and techniques of weight training and aerobic activity. The positive impact of physical education on health and wellness is explored and emphasized. Through progressive inquiry and practice, students demonstrate more advanced levels of weight training and comprehensive aerobic development. This course is of particular interest to students wishing to enter the fields of sports medicine and athletics, as well as to students seeking to improve overall fitness. Students must demonstrate increased proficiency and skill attainment with each repetition. This course may be taken four times for credit. When this course is offered for three hours per week, the additional time is utilized for the practice of weight training skills. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 142 Racquetball

**1.5 - 3 hours lab, .5-1 unit**

**Letter Grade or Pass/No Pass Option**

This course offers instruction and practice in racquetball at the beginning, intermediate and advanced recreational levels. Emphasis is placed on the skills of grip, strokes, footwork, court coverage

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and rules of the game. Singles and doubles strategies, offensive and defensive positioning and tournament play are incorporated at the intermediate and advanced levels. This course is intended for novices and students currently playing at any of these levels. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours per week, the additional time is utilized for skill development and court strategy. (FT) AA/AS; CSU; UC Transfer Limitations. See a Counselor.

### 154 Fitness Walking

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

This course covers the skills necessary to improve aerobic fitness and cardiovascular health through walking, with comprehensive instruction in fitness principles and walking techniques. Topics include general fitness information, stretching and principles of warm-up, walking techniques, principles of conditioning, training zones, and cool-down periods. This course may be taken four times for credit. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 159 Tennis

**2 - 3 hours lab, .5 - 1 unit**

**Grade Only**

This course provides instruction and on-court experience in the skills, strategies, rules and behaviors necessary to play tennis at the beginning, intermediate or advanced recreational level and is intended for novices and students currently playing at any of these levels. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours per week, the additional time is utilized for stroke development drills and application of strategies in playing situations. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 160 Track and Field

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

This course emphasizes progressive instruction and practice of basic fundamentals through advanced track and field skills. Target audience includes students who are interested in Intercollegiate Track and Field. The topics covered include sprinting, hurdling, jumping, and throwing techniques/skills, rules, and basic officiating. This course may be

taken four times for credit. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 166 Weight Training

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

This course is an introduction to progressive resistance training. It is designed for the student interested in developing strength, muscle endurance, and muscle tone. Instruction includes learning proper methods of weight training, various types of weight training programs, and safety factors. This course may be taken four times for credit. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 168 Yoga

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introduction to basic yoga practices and principles. Instruction includes yoga postures, guided relaxations, and breathing practices. The benefits of yoga include increased flexibility, strength, balance, and body awareness as well as stress reduction. This course is designed for students interested in health and longevity. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours per week, the additional time is utilized for the practice of postures. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 171 Men's Gymnastics

**2-3 hours lab, .5-1 unit**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course focuses on the development of skills required for successful performance in men's gymnastics. Standardized progression of skills instruction is used in floor exercise, parallel bars, horizontal bars, vaulting, still rings and pommel horse. The concepts covered include gymnastics vocabulary, safety, injury prevention, balance and body alignment. This course is designed for students interested in fitness, gymnastics, martial arts and kinesiology majors. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each

repetition. When this course is offered for three hours a week the additional time is utilized in the performance of an increased number of compulsory routines. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### **172 Women's Gymnastics**

**2 - 3 hours lab, .5-1 unit**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course focuses on the development of skills required for successful performance in women's gymnastics. Standardized progression of skills instruction is used in floor exercise, uneven parallel bars, balance beam and vaulting. The concepts covered include gymnastics vocabulary, safety, injury prevention, balance and body alignment. This course is designed for students interested in fitness, gymnastics, martial arts and kinesiology majors. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours a week the additional time is utilized in the performance of an increased number of compulsory routines. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### **191 Theory and Application of Conditioning - Advanced Basketball**

**2-3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Completion of or concurrent enrollment in: Physical Education 204 or 205, with a grade of "C" or better, or equivalent.

This course will enhance the physical and mental skills needed to participate in competitive sports activities. Emphasis is placed on weight training, running, skill development games, and individual development for basketball. When this course is offered for three hours a week the additional time is utilized in the practice and perfection of basketball skills. Additionally, all students must demonstrate increased proficiency and skill attainment with each course repetition. This course is designed for those students that wish to participate in intercollegiate basketball. (FT) AA/AS; CSU.

### **233 Kickboxing**

**2-3 hours lab, .5 - 1 unit  
Grade Only**

This course is designed for students to learn kickboxing. This course includes solo training, partner training, equipment training, and controlled sparring as practiced by the Kali/Jeet Kune Do family, including JKD kickboxing, the arts of Muay Thai training, Savate, and Panantukan styles of kickboxing. Emphasis is placed on practice in the fundamentals of kickboxing, including kickboxing safety skills and etiquette. Kick/strike analysis, balance, flexibility, conditioning, muscular strengths and endurance are stressed in the progression of the class. This course meets the SDCCD graduation requirements. This course may be taken four times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### **Team Sports**

#### **111 Baseball**

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

Instruction to develop the fundamental skills of throwing, catching, running, hitting, rules of play and strategy. Intermediate and advanced levels emphasize both individual and team skill development and strategies involved in competitive game situations. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

#### **112 Basketball**

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

This course offers basic instruction in the fundamental skills of basketball and team offense and defense. Instruction includes terminology, rules and strategy of the game. This course may be taken four times for credit. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

#### **125 Football**

**2 - 3 hours lab, .5 - 1 unit**

**Letter Grade or Pass/No Pass Option**

Football explores the skills and techniques for team play including blocking, tackling, passing catching,

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running, and offensive and defensive positioning. Football emphasizes individual and team skills as well as strategies involved in game situations. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 149 Soccer

**2 - 3 hours lab, .5 - 1 unit**  
**Letter Grade or Pass/No Pass Option**

This course emphasizes progressive instruction and practice of basic fundamentals through advanced soccer skills. The topics covered include soccer techniques and skills, offensive and defensive strategies, rules, and officiating. This course may be taken four times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 151 Softball

**2 - 3 hours lab, .5 - 1 unit**  
**Letter Grade or Pass/No Pass Option**

This course provides instruction in the fundamental skills of throwing, catching, running, hitting, and rules of play of softball as well as individual and team skill development and strategies involved in competitive game situations. This course may be taken four times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 161 Volleyball

**2 - 3 hours lab, .5 - 1 unit**  
**Letter Grade or Pass/No Pass Option**

This course provides instruction and on-court experience in the skills, strategies, rules and behaviors necessary to play volleyball at the recreation level. This course may be taken four times for credit. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

## Adapted Physical Education

### 181A Adapted Swimming

**2 - 3 hours lab, .5 - 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* A physician's medical release form is required. This course is not open to students with credit for Physical Education 181, 181C, or 181D. This course is designed for students with disabilities to learn how to swim through modified swimming strokes based on their abilities. Emphasis is placed on practice in the fundamental swimming strokes, including water safety skills. Stroke analysis, conditioning and endurance is stressed in the progression of the class. This course

meets the SDCCD graduation requirements. This course may be taken four times for credit. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 182 Adapted Weight Training

**2 - 3 hours lab, .5 - 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* A physician's medical release form is required.

This course is designed for students with disabilities as an introduction to progressive resistance training. Emphasis is placed on developing cardiorespiratory and muscle endurance, muscle strength and flexibility and a healthy body composition through individualized safe and beneficial exercise programming. The course includes exercises that focus on relaxation, joint mobility, body maintenance, and activities for daily living. This course may be taken four times for credit. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 184 Adapted Physical Fitness

**2 - 3 hours lab, .5 - 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Limitation on enrollment:* A physician's medical release form is required.

This course is designed for students with disabilities to provide opportunities for exercise and activities to improve cardiorespiratory endurance, flexibility, muscular endurance, strength, stress management and coordination. Activities can include walking, dance, rhythm activities, wheelchair pushing, jogging, relaxation training and exercises for joint mobility. This course may be repeated three times. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

## Intercollegiate Athletics

### 200 Intercollegiate Badminton I

**10 hours lab, 2 units**  
**Grade Only**

*Advisory:* Physical Education 108 with a grade of "C" or better, or equivalent, or previous competitive badminton experience.

This is a course for students competing in their first intercollegiate badminton season. The course is offered in the spring semester and may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**201 Intercollegiate Badminton II****10 hours lab, 2 units  
Grade Only**

*Advisory:* Physical Education 200 with a grade of "C" or better, or equivalent.

This is a course for students competing in their second intercollegiate badminton season. The course is offered in the spring semester and may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**202 Intercollegiate Baseball I****Spring, 10 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

Intercollegiate varsity baseball competition. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**203 Intercollegiate Baseball II****Spring, 10 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

Intercollegiate varsity baseball. Second season of competition. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**204 Intercollegiate Basketball I****Fall, 5 - 7.5 hours lab, 1 - 1.5 units  
Spring, 10 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

This course is intended for the first season of intercollegiate competition. Basketball skills and game strategies are at a more advanced level of participation than those of the Basketball 112 class. This course may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**205 Intercollegiate Basketball II****5-10 hours lab, 1-2 units  
Letter Grade or Pass/No Pass Option**

This course is intended for the second season of intercollegiate competition. Basketball skills and game strategies are at the advanced levels of participation. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**206 Intercollegiate Cross-Country I****10 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

This course is for students participating in their first season of intercollegiate varsity cross-country competition. This course may be taken two times for credit. Students must demonstrate increased

proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**207 Intercollegiate Cross-Country II****Fall, 10 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

Intercollegiate varsity cross-country competition. Second season of competition. AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**210 Intercollegiate Football I****Fall, 10 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Concurrent enrollment in: Physical Education 250A is recommended. This course is designed for students in their first season of intercollegiate football. Topics include fundamental skills of play for offense/defense and special teams. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**211 Intercollegiate Football II****Fall, 10 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Concurrent enrollment in: Physical Education 250B is recommended. This course is designed for students in their first season of intercollegiate football. Topics include fundamental skills of play for offense/defense and special teams. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**214 Intercollegiate Soccer I****Fall, 10 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Physical Education 149 with a grade of "C" or better, or equivalent, or previous competitive soccer experience. This is the first course of intercollegiate soccer competition. This course is offered separately for men and women. This course may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

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**215 Intercollegiate Soccer II****Fall, 10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

*Advisory:* Physical Education 149 with a grade of "C" or better, or equivalent, or previous competitive soccer experience; and concurrent enrollment in Physical Education 257B is highly recommended. This is the second course of intercollegiate soccer competition. This course is offered separately for men and women in the fall semester. This course may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**216 Intercollegiate Softball I****Spring, 10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

This is a course in which students competing in their first intercollegiate softball season learn and practice the techniques and strategies necessary for successful participation. Those topics covered are fundamental through advanced skills and offensive and defensive strategies. This course is offered in the spring semester and may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**217 Intercollegiate Softball II****Spring, 10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

This is a course in which students competing in their second intercollegiate softball competition learn and practice the techniques and strategies necessary for successful participation. Those topics covered are fundamental through advanced softball skills and offensive and defensive strategies. This course is offered in the spring semester and may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**218 Intercollegiate Swimming I****Spring, 10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

This course is designed for students to compete in men's and women's intercollegiate varsity swimming and diving competition. This course may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**219 Intercollegiate Swimming II****Spring, 10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

This course is designed for students to compete in a second semester of men's and women's

intercollegiate swimming and diving competition. This course may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**220 Intercollegiate Tennis I****Spring, 10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

This is a course for students competing in their first intercollegiate tennis season. This course is offered in the spring semester for men and women and may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**221 Intercollegiate Tennis II****Spring, 10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

This is a course for students competing in their second semester of intercollegiate tennis season. This course is offered in the spring semester for men and women and may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**222 Intercollegiate Track and Field I****10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

This course is for students competing in their first season of intercollegiate track and field. This course may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**223 Intercollegiate Track and Field II****10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

This course is for students competing in their second season of intercollegiate track and field. This course may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC Transfer Limitations. See a Counselor.

**224 Intercollegiate Volleyball I****Fall (Women), Spring (Men),****10 hours lab, 2 units****Letter Grade or Pass/No Pass Option**

*Advisory:* Physical Education 161 with a grade of "C" or better, or equivalent, or previous competitive volleyball experience.

This is the first course in intercollegiate volleyball competition. This course is offered in the fall semester for women and the spring semester for

men and may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 225 Intercollegiate Volleyball II

**Fall (Women), Spring (Men),  
10 hours lab, 2 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Physical Education 224 with a grade of "C" or better, or equivalent; and concurrent enrollment in Physical Education 255A is highly recommended. This is the second course in intercollegiate volleyball competition. This course is offered in the fall semester for women and the spring semester for men and may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 226 Intercollegiate Water Polo I

**Fall, 10 hours lab, 2 units**

**Letter Grade or Pass/No Pass Option**

This course is designed for men and women to compete in Intercollegiate water polo competition. This course may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

### 227 Intercollegiate Water Polo II

**Fall, 10 hours lab, 2 units**

**Letter Grade or Pass/No Pass Option**

This course is designed for men and women to participate in intercollegiate varsity water polo competition. This course may be taken two times for credit. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

## Fitness Specialist Certificate Courses

### 270 Fitness Specialist Work Experience

**60 - 300 hours other, 1-4 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

A program of on-the-job learning experiences for students employed in a job related to the Fitness Specialist Certificate program. This course may be taken for a maximum of 4 units. However, the combined maximum credit for all Work Experience courses from all disciplines may not exceed 16 units. (FT) AA/AS; CSU.

### 280 Applied Exercise Physiology

**2 hours lecture, 2 units  
Grade Only**

*Advisory:* Mathematics 46 with a grade of "C" or better, or equivalent or Assessment Skill Level M40. This course is designed for the student in the Fitness Specialist Certificate Program planning to study how the body functions under conditions of exercise stress and how fitness behaviors affect health and wellness. Emphasis is placed on muscular, cardiorespiratory, and other physiological processes that occur as a result of exercise conditioning, and the effect of disease. (FT) AA/AS; CSU.

### 281 Applied Kinesiology

**2 hours lecture, 2 units  
Grade Only**

This course is designed for the student in the Fitness Specialist Certificate Program planning to study movement as it relates to exercise under both normal and injury conditions. Students learn the practical implications of bones, joints, nerves, and muscle actions. Emphasis is placed on applying body alignment, range of motion, stabilization, and acceleration principles to the development of exercise programs. (FT) AA/AS; CSU.

### 282 Techniques of Weight Training

**2 hours lecture, 2 units  
Grade Only**

This course is designed for the student in the Fitness Specialist Certificate Program intending to teach weight training. Topics include anatomy, physiology, training sequences, equipment options, safety factors, and contraindications. (FT) AA/AS; CSU.

### 283 Exercise and Fitness Assessment

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

This course is designed for the student in the Fitness Specialist Certificate Program to develop the skills necessary to assess and evaluate exercise and fitness parameters. Topics include cardiorespiratory endurance, muscular strength and endurance, flexibility, body fat, pulmonary function, and blood pressure and evaluate the results. Emphasis is placed on determining the appropriate test, conducting the

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test, evaluating the results, and creating an exercise program. (FT) AA/AS; CSU.

### **284 Fitness and Sports Nutrition**

**2 hours lecture, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course is designed for the student in the Fitness Specialist Certification Program. Students study the basic principles of nutrition and the ramifications of nutrition on sports activities. (FT) AA/AS; CSU.

### **285 Exercise for Special Populations**

**2 hours lecture, 2 units  
Grade Only**

This course is designed for the student in the Fitness Specialist Certificate Program planning to study the exercise implications for special populations related to age, medical condition and level of fitness. Emphasis is placed on cardiac conditions, diabetes, obesity, physical disabilities, Human Immunodeficiency Virus (HIV) and Acquired Immune Deficiency Syndrome (AIDS), asthma, sensory impairments. Issues and barriers to exercise are included for each of the following groups: seniors, children, athletes, mentally impaired and pregnant and post partum women. (FT) AA/AS; CSU.

### **286 Techniques of Exercise Leadership**

**1.75 hours lecture, .75 hours lab, 2 units  
Grade Only**

This course is designed for the student in the Fitness Specialist Certificate Program planning to study the principles and techniques involved in teaching group exercise and developing a personal trainer/client relationship. Emphasis is placed on client assessment, communication skills, program design, exercise adherence, teaching strategies, and professional responsibility and liability. (FT) AA/AS; CSU.

### **287 Fitness Specialist Internship**

**1 hour lecture, 6 hours lab, 2 units  
Grade Only**

*Prerequisite:* Physical Education 280, 281, and 283, each with a grade of "C" or better, or equivalent.

This course is designed to provide students in the Fitness Specialist Certificate Program with practical experience in the field of exercise and fitness. Emphasis is placed on participant screening, evaluation, and exercise program design, self

marketing, fitness specialist/client relationships and professional responsibility in a fitness setting. (FT) Associate Degree Credit only and not Transferable.

### **288 Fitness Specialist Internship Lecture**

**1 hour lecture, 1 unit  
Grade Only**

*Prerequisite:* Physical Education 280, 281 and 283, each with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

*Advisory:* Concurrent enrollment in Physical Education 270 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 287.

This course is designed to provide students in the Fitness Specialist Certificate Program with practical experience in the field of exercise and fitness. Emphasis is placed on participant screening, evaluation, and exercise program design, self marketing, fitness specialist/client relationships and professional responsibility in a fitness setting. (FT) AA/AS; CSU.

## **Physical Education Theory Classes**

### **240 Physical Education in the Elementary Schools**

**3 hours lecture, 1 hour lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Completion of or concurrent enrollment in: English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course includes a brief study of the growth, development and characteristics of the elementary school child. The elements of written lesson plans, units, evaluations and various forms of testing are covered. The teaching of fundamental skills, rhythms, dance and games based on sound physiological principles for this age group is emphasized. The positive impact of physical education on health and wellness in addition to academic achievement is explored. Actual teaching situations are experienced in the lab sessions. This course is designed to fulfill lower division preparation for the major for students interested in elementary education. (FT) AA/AS; CSU.



**241 Introduction to Exercise Science/Physical Education****2 hours lecture, 2 units  
Grade Only**

*Advisory:* English 48 and English 49 with grades of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is the introductory course for students majoring in Physical Education and is required for the Associate in Arts degree in Physical Education. It provides the student an opportunity to study the history, basic philosophy, basic principles, and professional career options of exercise science. (FT) AA/AS; CSU; UC.

**242 Care and Prevention of Injuries****Fall, Spring, 2 hours lecture, 1 hour lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

Prevention and care of common athletic injuries is discussed. This course covers the theory and practice of emergency field care and basic athletic first aid. Bandaging and/or taping techniques are included. (FT) AA/AS; CSU; UC.

**250A Professional Activities/Football I****Fall, 1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Concurrent enrollment in: Physical Education 210 is recommended.

This course is designed for students competing in their first intercollegiate football season. Emphasis is on theoretical concepts necessary for successful participation. Topics include analysis of fundamentals used on offense/defense, special teams and also strategies, rules, and officiating. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**250B Professional Activities/Football II****Fall, 1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

This is a lecture/lab course with emphasis on advanced skills, strategy, tactics, rules officiating, and organizational procedures in football. Concepts for social skills and team building techniques required for success at the intercollegiate level are also emphasized. This course is valuable to student athletes enrolled in PHYE 211, Intercollegiate Football II. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**251A Professional Activities/Basketball I****Fall, 1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

This lecture/lab course includes discussion of rules, game strategies, history, and game preparation. The physiological requirements for the intercollegiate athlete and importance of nutritional components for optimal performance are emphasized. This course benefits students who are enrolled in PHYE 204, Intercollegiate Basketball I. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**251B Professional Activities/Basketball II****Fall, 1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

This lecture/lab course includes activities and discussion of advanced team strategies, efficient basketball conditioning techniques, goals for game preparation and leadership qualities for basketball. Concepts for team building and social skills necessary for success at the intercollegiate level are also emphasized. This course benefits students who are enrolled in PHYE 205, Intercollegiate Basketball II. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**252A Professional Activities/Baseball I****Spring, 1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

Competency development with emphasis on skills, strategy, tactics, rules, officiating, facilities film review, and organizational procedures as it relates to school or college baseball. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**252B Professional Activities/Baseball II****Spring, 1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

Sophomore athletic eligibility status required. A continuation of Physical Education 252A with emphasis on advanced skills, strategy, tactics, rules officiating, and organizational procedures in baseball. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

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**253A Professional Activities/Softball I****1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option***Corequisite:* Physical Education 216.

This is a course which explores a variety of softball strategies and tactics focusing on the development of offensive and defensive strategies, rules, officiating, video review, and mechanical analysis of fundamentals through intermediate softball skills. The course is open to those interested in participating in the sport of softball at an intermediate level. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**253B Professional Activities/Softball II****1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only***Corequisite:* Physical Education 217.

This course develops both mental and physical competency with emphasis on advanced skill, tactics, rules, both offensive and defensive strategies, officiating, facilities, video review, organizational procedures and physiological aspects of the game as they relate to college softball. The course is open to students interested in the sport of softball at the advanced level. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**254A Professional Activities/Track and Field I****Spring, 1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

This course is a lecture/lab class pertaining to management of a track and field program. Track and field management consists of development, competition scheduling, site preparation, and teaching track and field. This course benefits students who are enrolled in a second intercollegiate track and field season. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**254B Professional Activities/Track and Field II****1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

This is a lecture/lab class for competency development with emphasis on skills, tactics, officiating, facilities, video review and organizational procedures for administrating a college track and field meet. This course will benefit students who are competing in a first intercollegiate track and field season. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**255A Professional Activities/Volleyball I****Fall (Women), Spring (Men),  
1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option***Advisory:* Concurrent enrollment in: Physical Education 224 or Physical Education 225.

This is a course in which students competing in their first intercollegiate volleyball season learn the theoretical concepts necessary for successful participation. Topics covered include mechanical analysis of fundamental through advanced volleyball skills, offensive/defensive strategies, statistics, rules and officiating. The course is offered in the fall semester for women and the spring semester for men. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**255B Professional Activities/Volleyball II****Fall (Women), Spring (Men),  
1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option***Advisory:* Physical Education 255A with a grade of "C" or better, or equivalent; and concurrent enrollment in Physical Education 224.

This is a course in which students competing in their second intercollegiate volleyball season learn the theoretical concepts necessary for successful participation. Topics covered include officiating, statistics, concepts for team building, goals for game preparation, leadership and social skills for success at the intercollegiate level. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**257A Professional Activities/Soccer I****Fall, 1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

This course covers the theoretical concepts necessary for students to compete successfully in their first intercollegiate soccer season. Topics covered include mechanical analysis of fundamental through advanced soccer skills, offensive and defensive strategies, statistics, rules, and officiating. This course is offered separately for men and women. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**257B Professional Activities/Soccer II****Fall, 1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

This is a lecture/lab course including activities and discussion of advanced team strategies, efficient conditioning techniques, goals for game preparation, and leadership qualities. Concepts for

team building and social skills necessary for success at the intercollegiate level are emphasized. This course is offered separately for men and women in the fall semester. This course benefits students who are enrolled in PHYE 215, Intercollegiate Soccer II. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Physical Science (PHYN)

### 100 Survey of Physical Science

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Concurrent enrollment in: Physical Science 101.

*Advisory:* English 42 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R4 and M20.

This course is an introductory survey of the fundamental concepts of astronomy, geology, chemistry and physics and the interrelationships among these disciplines. Emphasis is placed on the ways in which the physical sciences affect life on the planet and the role discipline plays in addressing issues and problems related to energy, ecology and environmental sustainability. This course is recommended for students planning to major in geography and/or planning to transfer to a four-year institution. AA/AS; CSU; UC Transfer Limitation: No credit if taken after a college level course in Chemistry or Physics.

### 101 Survey of Physical Science Laboratory

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in: Physical Science 100 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: English 48 and Mathematics 46, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and M40.

This course introduces students to the science laboratory and is designed to demonstrate the fundamental concepts of astronomy, geology, chemistry and/or physics as presented in Physical Science 100. Emphasis is placed on the application of the scientific method and collaborative learning. This course is recommended for students planning to major in geography and/or planning to transfer to a four-year institution. (FT) Associate Degree Credit and transfer to CSU.. UC Transfer Limitation: No credit if taken after a college level course in Chemistry or Physics.

### 120 Physical Oceanography

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5, W5 and M20.

This course allows students to pursue an understanding of the major features and processes of the world's oceans. Students learn about the origin and history of ocean basins, atmospheric and ocean circulation, and the dynamics of waves, tides, and coastlines. They explore the oceans as a resource for people and analyze and evaluate human impacts on marine environments. (FT) AA/AS; CSU; UC.

### 215 Introduction to Teaching Science

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48, English 49 and Mathematics 96, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5, W5 and M50; Astronomy 101, Biology 107, Biology 210A, Chemistry 100, Chemistry 152, Chemistry 200, Geography 101, Geology 100, Physical Science 100, Physics 100, Physics 125, Physics 180A or Physics 195 each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Health and Safety. Must meet safety and health clearance standards for a public school field experience placement.

This course is a practical study of the middle/secondary school science classroom environment from the teacher and student perspectives. Emphasis is placed on the ways in which middle and secondary students learn science and on effective teaching modalities. Students observe a variety of classroom

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environments in order to assess how human learning translates into effective teaching practice. This course is designed for students interested in teaching at all levels, especially the middle and secondary school classroom environments. (FT)AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Physical Therapist Assistant (PHYR)

### 110 Physical Therapy Introduction

**2 hours lecture, 2 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course provides general information regarding the field of physical therapy (P.T.) to those persons who have been admitted into the program or who have an interest in the profession of P.T. The course focuses on the history and development of the profession, its relationship to the health care delivery system in the United States, the settings utilized in the delivery of therapy, and an exploration of the roles and functions of the workers in the field and their part on the healthcare team. The development of the professional organization, the American Physical Therapy Association (A.P.T.A) and its purpose are presented as well as the general ethical, legal principles and state laws relating to the delivery of physical therapy. Medical terminology specific to P.T. and the need of the health care worker to develop a therapeutic presence are also presented. This course fosters the development of communication skills, interpersonal relationships and professionalism required for the health care field. (FT) AA/AS; CSU.

### 114 Introduction To Human Movement

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Corequisite:* Physical Therapist Assistant 116 and 116L, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course introduces the student Physical Therapist Assistant to the relationship between physical laws and the biomechanical principles of joint motion as well as the concepts of normal posture and human locomotion contrasted with obvious posture and gait deviations. The course also provides the students with the opportunity to apply kinesiological concepts to the body's major joints in performing basic exercise applications with the client who has an orthopedic condition. (FT) AA/AS; CSU.

### 116 Physical Therapy Techniques I

**2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Physical Therapist Assistant 114 and 116L.

*Corequisite:* Completion of or concurrent enrollment in: Physical Therapist Assistant 110 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 111.

This lecture course provides the future Physical Therapist Assistant (PTA) with an exposure to the duties that related to the PTA scope of practice and with an emphasis on the outpatient setting. These duties include the principles of the application of basic physical agents including cold, heat and therapeutic massage; basics of gait training with assistive devices for general orthopedic problems; hydrotherapy and basic dressing changes to include universal precautions and infection control; treatment preparation; client positioning and clinic maintenance. The course also fosters the development of communication skills, interpersonal relationships and professionalism required for the health care field. (FT) AA/AS; CSU.

### 116L Physical Therapy Techniques I

**6 hours lab, 2 units  
Grade Only**

*Corequisite:* Physical Therapist Assistant 114 and 116.

*Corequisite:* Completion of or concurrent enrollment in: Physical Therapist Assistant 110 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 111.

This laboratory course provides the future Physical Therapist Assistant (PTA) with an exposure to the duties that related to the PTA scope of practice and with an emphasis on the outpatient setting. These duties include the techniques of the application of basic physical agents including cold, heat and therapeutic massage; basics of gait training with assistive devices for general orthopedic problems; hydrotherapy and basic dressing changes to include universal precautions and infection control; treatment preparation; client positioning and clinic maintenance. The course also fosters the development of communication skills, interpersonal relationships and professionalism required for the health care field. (FT) AA/AS; CSU.

### 122 Introduction to Pathology

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course focuses on the etiology and characteristics of diseases of the body's systems as they relate to physical therapy and includes a consideration of the general principles of tissue injury, inflammation and healing. The course is designed for students enrolled in the Physical Therapist Assistant Program but is also appropriate for those interested in physical therapy or pathology with a musculoskeletal emphasis. This course is offered in the spring semester only. (FT) AA/AS; CSU.

### 123 Introduction to Therapeutic Exercise

**1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 114 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course provides the future Physical Therapist Assistant (PTA) with an exposure to the duties that relate to the PTA scope of practice specific to basic principles of therapeutic exercise, including: range of motion, goniometry, manual muscle testing and proprioceptive neuromuscular facilitation. Basic lower extremity exercises are also introduced. This course is offered in the spring only. (FT) AA/AS; CSU.

### 126 Physical Therapy Techniques II

**2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 116 and 116L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Physical Therapist Assistant 122, 123 and 126L.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 120.

This lecture course is for student physical therapist assistants (PTAs) and is a continuation of Physical Therapy Techniques I with an emphasis on advanced skills and rehabilitation in acute care. It explores the duties related to the PTA scope of practice, including the application of mechanical traction, electrotherapy and electromagnetic physical agents as well as vasopneumatic compression, chest physical therapy, wound care, transfer and transportation of patients, gait techniques for specific diagnoses, and the identification of architectural barriers and basic wheelchair management. Students continue to use medical terms, charting skills, and role play to foster patient and family teaching as well as a deepening of self-awareness of communication skills and professionalism. (FT) AA/AS; CSU.

### 126L Physical Therapy Techniques II

**6 hours lab, 2 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 116 and 116L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Physical Therapist Assistant 122, 123 and 126.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 120.

This laboratory course is for student physical therapist assistants (PTAs) and is a continuation of Physical Therapy (PT) Techniques I with an emphasis on advanced skills and rehabilitation in acute care. It explores the duties related to the PTA scope of practice including the application of mechanical

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traction, electrotherapy and electromagnetic physical agents as well as vasopneumatic compression, chest physical therapy, wound care, transfer and transportation of patients, gait techniques for specific diagnoses, and the identification of architectural barriers and basic wheelchair management. Students continue to use medical terms, charting skills and role play to foster their development as PTAs. (FT) AA/AS; CSU.

**137 Orthopedic Exercise and Rehabilitation**  
**2 hours lecture, 2 units**  
**Grade Only**

*Prerequisite:* Physical Therapist Assistant 114, 123, 126, and 126L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in: Physical Therapist Assistant 142A.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 134.

This course provides the student with kinesiology based approach to the clinical applications used in the treatment and rehabilitation of the client with orthopedic and related diagnoses. The focus is on safe, legal, ethical and appropriate use of therapeutic exercise and screening assessment procedures, including physiological and therapeutic effects and indications and contraindications. This course is for students enrolled in the Physical Therapist Assistant Program. (FT) AA/AS; CSU.

**137L Orthopedic Exercise and Rehabilitation-Lab**  
**6 hours lab, 2 units**  
**Grade Only**

*Prerequisite:* Physical Therapist Assistant 114, 123, 126, and 126L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Physical Therapist Assistant 142A.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for students with previous credit for Physical Therapist Assistant 134.

This course provides the student with a kinesiology based approach to the clinical applications used in the treatment and rehabilitation of the client with orthopedic and related diagnoses. The focus is on safe, legal, ethical and appropriate use of therapeutic exercise and screening assessment procedures, including physiological

and therapeutic effects and indications and contraindications. This course is for students enrolled in the Physical Therapist Assistant Program. This course fosters the development of communication skills, interpersonal relationships and professionalism required for the health care field. It also requires a high level of critical thinking skills related to implementing and modifying physical therapy interventions. (FT) AA/AS; CSU.

**138 Topics in Neurology and Rehabilitation**  
**1.5 hours lecture, 1.5 units**  
**Grade Only**

*Prerequisite:* Physical Therapist Assistant 126 and 126L with a grade of "C" or better, or equivalent.

*Corequisite:* Physical Therapist Assistant 138L and Physical Therapist Assistant 142A.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 136.

This course deals with the principles of the functional activities and rehabilitation procedures relating to the management of therapy clients with neurological diagnoses. Other topics include normal growth and development and the rehabilitation of cardiopulmonary conditions. The focus is on the safe, legal, ethical and appropriate use of rehabilitation procedures, including physiological and therapeutic effects. The course also focuses on the development of communication skills, interpersonal relationships and professionalism required for the health care field. It requires a high level of critical thinking related to implementing and modifying physical therapy interventions. This course is for students enrolled in the Physical Therapist Assistant (PTA) Program. (FT) AA/AS; CSU.

**138L Topics in Neurology and Rehabilitation**  
**3 hours lab, 1 unit**  
**Grade Only**

*Prerequisite:* Physical Therapist Assistant 126 and 126L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Physical Therapist Assistant 138 and 142A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 136.

This course deals with the clinical application of the functional activities and rehabilitation procedures

relating to the management of therapy clients with neurological diagnoses. Other topics include normal growth and development and the rehabilitation of cardiopulmonary conditions. The focus is on the safe, legal, ethical and appropriate use of rehabilitation procedures, including physiological and therapeutic effects. The course also focuses on the development of communication skills, interpersonal relationships and professionalism required for the health care field. It requires a high level of critical thinking related to implementing and modifying physical therapy interventions. This course is for students enrolled in the Physical Therapist Assistant (PTA) Program. (FT) AA/AS; CSU.

### 141 Organization of Physical Therapy

**2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 110 with a grade of "C" or better, or equivalent. This course provides future physical therapist assistants with the principles of organization, management, supervision, productivity levels and performance evaluations. Other topics include: the legal and ethical aspects of physical therapist assistants' occupation as described in the state board and national association regulations and standards; federal, state and private insurance regulations; medications commonly used by those receiving physical therapy; professional liability insurance; job hunting skills; and the discussion of issues in the medical field as they impact physical therapy. (FT) AA/AS; CSU.

### 142A Directed Clinical Practice

**150 hours total by arrangement, 2 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in: Physical Therapist Assistant 137, 137L, 138 and 138L, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students who have successfully completed Physical Therapist Assistant 140A and 140B.

This course provides the third semester Physical Therapist Assistant (PTA) student a supervised application of previously learned techniques and skills in the rehabilitation of patients in a selected clinical facility affiliated with the college. The focus is on safe, legal, ethical and effective use of physical therapy interventions. This course also fosters the development of communication skills, interpersonal

relationships and professionalism required for the healthcare field. It requires a high level of critical thinking related to implementing, modifying and progressing physical therapy rehabilitation programs. Students are placed in either an inpatient or an outpatient facility. Supervision of the student at the intermediate level is provided by the staff of the affiliating institution and is coordinated by the college faculty. This course is the first of two Directed Clinical Practice courses in the PTA Program. (FT) AA/AS; CSU.

### 143A Directed Clinical Practice

**375 hours total by arrangement, 5 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 142A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Health and Safety. This course is only open to students enrolled in the Physical Therapist Assistant Program

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Therapist Assistant 142B.

This course provides the fourth semester Physical Therapist Assistant (PTA) student a supervised application of previously learned techniques and skills in the rehabilitation of patients in two selected clinical facilities affiliated with the college. The focus is on job-ready application in the safe, legal, ethical and effective use of physical therapy interventions. This course requires an advanced level of professional communication and interpersonal relationships necessary for the healthcare field. It requires an advanced level of critical thinking related to the implementation, modification and progression of physical therapy rehabilitation programs. Students are placed in both an inpatient and outpatient facility. Supervision of the student at the job-ready level is provided by the staff of the affiliating institution and is coordinated by the college faculty. This course is the second of two Directed Clinical Practice course in the PTA program. (FT) AA/AS; CSU.

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**290 Independent Study****Hours by Arrangement, 1-4 units  
Grade Only**

*Limitation on Enrollment:* Must obtain an Add Code from instructor for registration.

Provides for additional research, academic or clinical experiences for students with special interests.

This course may be taken four times with different content for a maximum of six units. Associate Degree Credit only and not Transferable.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Physics (PHYS)****100 Introductory Physics****3 hours lecture, 3 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Mathematics 46 with a grade of "C" or better, or equivalent, or Assessment Skill Level M40.

This course is designed for transfer-level students or for those wanting to acquire basic knowledge in physics with a minimum preparation in mathematics. A comprehensive coverage of subject matter in physics is presented, including mechanics, wave motions, thermodynamics, optics, electromagnetism, atomic and nuclear physics. Emphasis is on the conceptual aspects, including explanation of natural phenomena. The learning of concepts is reinforced through laboratory work. (FT) AA/AS; CSU; UC Transfer Limitation: No credit for Physics (PHYS) 100 if taken after a college level course in Physics. Engineering Technology (ENGN) 110, Chemistry (CHEM) 100, and Physics (PHYS) 100 combined: maximum credit, one course.

**125 General Physics****4 hours lecture, 3 hours lab, 5 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 104 or Mathematics 116, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physics 120A, 121A, 124A, 125A, or 195.

This course is an introductory survey of the concepts and principles of physics. Emphasis is placed on developing an understanding of the properties of matter, mechanics, heat and sound. This course is intended for students taking liberal arts and/or pre-professional courses that do not require physics with calculus. (FT) AA/AS; CSU; UC Transfer Limitation: Physics (PHYS) 120A-120B, 121A-121B, 124A-124B, 125-126, 180A-180B, 181A-181B, 195A-195B-195C and 195-196-197 combined: maximum credit, one series.

**126 General Physics II****4 hours lecture, 3 hours lab, 5 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Physics 125 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physics 120B, 121B, 124B, 125B, 195B or 196.

This second course in a two-part introductory survey explores the concepts and principles of physics. Topics include electricity, magnetism, light, and modern physics. This course is intended for students taking liberal arts and/or pre-professional courses that do not require physics with calculus. (FT) AA/AS; CSU; UC Transfer Limitation: Physics (PHYS) 120A-120B, 121A-121B, 124A-124B, 125-126, 180A-180B, 181A-181B, 195A-195B-195C and 195-196-197 combined: maximum credit, one series.

**195 Mechanics****4 hours lecture, 3 hours lab, 5 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 150 with a grade of "C" or better, or equivalent.

*Corequisite:* Mathematics 151 with a grade of "C" or better, or equivalent.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physics 195A and Physics 196A.

The Physics 195, 196, 197 sequence is designed to give a foundation in calculus-based physics for engineering and science majors. Physics 195 deals primarily with the description of motion, Newton's Laws, energy, momentum, rotation, gravity, oscillatory motion, and thermodynamics. (FT) AA/AS; CSU; UC Transfer Limitation: Physics (PHYS) 120A-120B, 121A-121B, 124A-124B, 125-126,



180A-180B, 181A-181B, 195A-195B-195C and 195-196-197 combined: maximum credit, one series.

### 196 Electricity and Magnetism

**4 hours lecture, 3 hours lab, 5 units  
Grade Only**

*Prerequisite:* Physics 195 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physics 195B and 196B.

This is the second of a three-semester calculus-based general physics sequence, intended to satisfy the transfer requirements of students planning to major in the physical sciences and in engineering. The topics of study include the basic principles and applications of electrostatics, magnetostatics, time-varying electric and magnetic phenomena, direct and alternating current circuits, elementary electronics and electromagnetic waves. Emphasis is placed on the mathematical analysis of physical problems. Laboratory work on various aspects of electric and magnetic phenomena emphasizing direct current and alternating current circuits is included. (FT) AA/AS; CSU; UC Transfer Limitation: Physics (PHYS) 120A-120B, 121A-121B, 124A-124B, 125-126, 180A-180B, 181A-181B, 195A-195B-195C and 195-196-197 combined: maximum credit, one series.

### 197 Waves, Optics and Modern Physics

**4 hours lecture, 3 hours lab, 5 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Physics 195 with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: Physics 196 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physics 195C and Physics 196C.

Physics 197 is the third semester of a three semester calculus-based course designed for prospective scientists and engineers. Topics include the fundamental principles of physics of waves, the behavior of light, and an introduction to relativity, quantum physics and the atomic and nuclear properties of matter. PHYS 196 and 197 may be taken concurrently only if PHYS 195 was completed with a grade of "B" or better or with approval of the department. (FT) AA/AS; CSU; UC Transfer Limitation: Physics (PHYS) 120A-120B, 121A-121B, 124A-124B,

125-126, 180A-180B, 181A-181B, 195A-195B-195C and 195-196-197 combined: maximum credit, one series.

*This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability*

## Political Science (POLI)

### 101 Introduction to Political Science

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introductory study of the fundamental concepts and methods of Political Science. Emphasis is placed on historical and contemporary political theories, ideologies and cultures as well as on political institutions, parties and interest groups and the international political system. This course may be required for students planning to major in Political Science and is highly recommended for students transferring to four-year institutions. (FT) AA/AS; CSU; UC.

### 102 The American Political System

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This comprehensive survey course, designed for students intending to transfer to a four-year college or university, provides an in-depth study of the American political system. Both national and California experiences are studied from the perspective of constitutional frameworks, institutions, issues, and policies. NOTE: If used to satisfy part of the American Institutions requirement,

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Political Science 102 may not be used to satisfy the SDCC District's three-unit social science requirement. Political Science 102 is required for completion of the major in political science. Political Science 102 taken in conjunction with History 109, 115A, 141, 150; Black Studies 140A; Chicano Studies 141A, satisfies the District and CSU American Institutions/California Government requirements. (FT) AA/AS; CSU; UC.

### 103 Comparative Politics

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level W6 and R6.

*Limitation on Enrollment:* This course is not open to students with previous credit for Political Science 130.

This course is an introduction to comparative politics. Emphasis is placed on analyses of various political systems using the fundamental concepts and methodologies of comparative politics. This course is designed for political science majors and anyone interested in comparative and/or international politics. (FT) AA/AS; CSU; UC.

### 140 Contemporary International Politics

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of world politics including the various approaches to international relations and international political economy. Emphasis is placed on the roles of nationalism, nation-states, transnationalism and international organizations in the making of contemporary world politics as well as on issues of national security, power and diplomacy, economic competition, international law and the environment. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Psychology (PSYC)

### 101 General Psychology

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a survey of the concepts, principles and terminology of psychology as a science. Emphasis is placed on introducing students to the diverse areas that make up the field of psychology, preparing students for further study in the behavioral sciences and providing students with greater insight into human behavior. This course is designed for students planning to take advanced courses in the Social and Behavioral Sciences and/or students majoring in Psychology. (FT) AA/AS; CSU; UC Transfer Limitation: Psychology (PSYC) 101 and Black Studies (BLAS) 104 combined: maximum credit, one course.

### 111 Psychological/Social Aspects of Aging, Death and Dying

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course explores the psychological, physiological and social factors influencing behavior during the later years of life. Through improving their understanding of the conditions and problems of growing older in today's world, students may increase their empathy with the aged in society as well as enhance their adaptation to their own aging process. (FT.) AA/AS; CSU.

### 112 Interpersonal Relations

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6.

This course is a study of psychological theories as applied to the understanding of self in relationship to others. Emphasis is placed on the development and practice of interpersonal skills. This course is intended for students with an interest in psychology and interpersonal relations. (FT) AA/AS; CSU; UC.

**121 Introduction to Child Psychology****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. This course is a study of child growth and development from conception through adolescence. Topics include environmental management and interpersonal relations. This course is designed for psychology and child development majors as well as anyone interested in child psychology. (FT) AA/AS; CSU; UC Transfer Limitation: No credit for Psychology (PSYC) 121 or 123 if taken after 230.

**125 Introduction to Behavior Modification****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is an introduction to the basic principles of behavior modification. Emphasis is placed on applied learning theory as it pertains to life-style issues, including exercise, weight and diet, time management, stress and relaxation. This course is intended for Psychology majors and all students interested in the practical applications of learning theory. (FT) AA/AS; CSU.

**128 Biofeedback and Stress Management****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5. This course explores Biofeedback as a theoretical and practical discipline that uses physiological monitors to increase awareness and control of normally subconscious glandular and muscular responses for the purpose of increasing physical and psychological health. The course is open to any student with an interest in learning the theories of biofeedback and stress management. (FT) AA/AS; CSU.

**133 Psychology of Women****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skills Levels R5 and W5. Psychology of Women is designed for students seeking an associate degree or those seeking elective credit for transferring to the CSU or UC systems or any student interested in women's issues.

The course explores the nature of women's lives and the various roles that women play during their lives and takes an historical, ethnic and cross-cultural look at the treatment of women in the United States and abroad. Students examine women's sexuality, health, life span development and socio-political status in the world today. AA/AS; CSU; UC.

**135 Marriage and Family Relations****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course examines the behaviors related to courtship, engagement, marriage, and family life as well as how science helps us understand these experiences. It surveys historical, cross cultural, and social perspectives of families. The course addresses interpersonal communication, economic management, and sexuality as they relate to the family. This course can be beneficial to students pursuing advanced degrees in child development or family studies. (FT) AA/AS; CSU; UC.

**137 Human Sexual Behavior****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course explores the psychological, social, and physiological dimensions of human sexual behavior. Students review specific theories and research findings and focus on individual sexual development, functioning, and healthy decision making. (FT) AA/AS; CSU; UC Transfer Limitation: Psychology (PSYC) 137 and Black Studies (BLAS) 165 combined: maximum credit, one course.

**155 Introduction to Personality****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is a survey of the fundamental personality theories within the field of psychology. Emphasis is placed on the personal life experiences

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of each of the major personality theorists, their research methods and approaches to the study and understanding of personality, and clinical applications of their theories. This course is designed for psychology majors and anyone seeking a stronger understanding of psychological theory. (FT) AA/AS; CSU; UC.

### 161 Introduction to Counseling

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6. This course is an introductory study of the history and complexity of the counseling relationship. Emphasis is placed on the skills required to be an effective counselor. Topics include various counseling approaches and settings as well as related legal and ethical issues. This course is intended for psychology majors and anyone interested in the therapeutic aspects of psychology/counseling. (FT) AA/AS; CSU.

### 165 Theories of Consciousness

**3 hours lecture, 3 units**

**Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6. This course explores various theoretical approaches to the mind-body problem, as well as a broad range of different states of consciousness, including normal waking consciousness, daydreaming, sleeping, dreaming, hypnosis, meditation, and psychedelic drug states. States of consciousness are considered by examining both behavioral experiences as well as neural correlates of those states, including case studies of brain-injured patients and neuroimaging of normal participants in different states of consciousness. This course is intended for all students interested in psychology and/or theories of consciousness. (FT) AA/AS; CSU.

### 166 Introduction to Social Psychology

**3 hours lecture, 3 units**

**Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6. Social psychology examines how individuals are influenced by their social environment. Special attention is given to social cognition and perception, self-justification, conformity, group dynamics, prejudice, aggression, prosocial behavior and applied social psychology. Emphasis will be

placed on developing critical and integrative ways of thinking about theory and research in social psychology. This course is for anyone who is interested in the subject of social psychology. (FT) AA/AS; CSU; UC.

### 201 Academic and Career Opportunities in Psychology

**1 hour lecture, 1 unit**

**Pass/No Pass**

*Prerequisite:* Psychology 101 with a grade of "C" or better, or equivalent.

*Advisory:* 30 units of college course work.

This course is a study of career options in the field of Psychology. Emphasis is placed on the identification of career-related strengths and interests and information on post-baccalaureate options in psychology and related fields. This course is designed for students interested in majoring in psychology. (FT) AA/AS; CSU.

### 211 Learning

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Psychology 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Psychology 210. Students learn about the basic principles and research in animal and human learning. Subjects include scientific versus nonscientific approaches to behavior studies, operant and respondent conditioning, observational and cognitive learning, and motivation as related to self-control. AA/AS; CSU; UC.

### 230 Psychology of Lifespan Development

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Psychology 101 with a grade of "C" or better, or equivalent.

This course is designed for students interested in studying the psychological development of humans in all their sociocultural diversity from conception to death. Students learn major theoretical positions related to growth and change. The course emphasizes the variety of factors that shape similarities and differences in life. Psychology majors wishing to transfer are advised to take this course. (FT) AA/AS; CSU; UC.

**245 Abnormal Psychology****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

This course is a comprehensive survey of the troubled patterns of abnormal behavior. Emphasis is placed on the theoretical models as they relate to assessment, diagnoses, etiology, treatment, and prognosis of psychopathologies. Topics also include legal and ethical issues related to abnormal psychology. This course is designed for psychology majors and all students interested in abnormal psychology. (FT) AA/AS; CSU; UC.

**255 Introduction to Psychological Research****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Psychology 101 with a grade of "C" or better, or equivalent.

This course is an introduction to scientific methodology in psychology. Emphasis is placed on descriptive, experimental, and applied research. Students learn the American Psychological Association writing style for empirical report writing. This course is intended for psychology majors and behavioral science students interested in the processes of research. AA/AS; CSU; UC.

**258 Behavioral Science Statistics****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Levels M50.

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is an introductory study of statistics for the Behavioral Sciences. Emphasis is placed on acquainting students with the concepts underlying statistical methods and research approaches, basic statistical analyses and principles. (FT) AA/AS; CSU; UC Transfer Limitation: Mathematics (MATH) 119, Biology (BIOL) 200 or Psychology (PSYC) 258 combined: maximum credit, one course.

**259 Behavioral Science Statistics Laboratory****3 hours lab, 1 unit****Letter Grade or Pass/No Pass Option**

*Corequisite:* Psychology 258.

This laboratory course offers students practice in using statistical analysis software for the behavioral sciences. Emphasis is placed on data entry, graphing,

hypothesis testing and statistical analyses. This course is intended for psychology and other behavioral science majors and anyone interested in using statistical analysis software for research purposes. (FT) AA/AS; CSU.

**260 Introduction to Physiological Psychology****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Psychology 101 with a grade of "C" or better, or equivalent.

Students learn about the physiological determinants of behavior. Subjects include behavior evolution, the nervous system, and endocrine glands as well as their relationship to perception, learning, motivation, emotion, and personality. AA/AS; CSU; UC.

**262 Health Psychology****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Psychology 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Psychology 265: Health Psychology.

This course surveys concepts and applications of psychology that are effective in the areas of optimizing health and the delivery of treatment, including behavior analysis and cognitive interventions and prevention techniques.

Perspectives of health psychology research and how it leads to better medical care are discussed. The course is open to any student who has an interest in the study of the interrelationships of health and psychology. (FT) AA/AS; CSU.

**276 Field Work in Psychological Services****2 hours lecture, 3 hours other, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

This supervised field experience course enables the student to be of service to the community while learning about the function of human care services. Emphasis is placed on providing students with the chance to explore the varied career choices in the field of psychology as well as on practical experience with basic helping skills in current social service

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situations. This course is intended for students who want to work with people in human care services. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Radiologic Technology (RADT)

### 85 Fluoroscopy and Radiation Safety

**2.5 hours lecture, 2.5 units  
Grade Only**

*Corequisite:* Radiologic Technology 85L.

*Corequisite:* Completion of or concurrent enrollment in: Radiologic Technology 220 and 230, each with a grade of "C" or better, or equivalent.

Topics include California state-approved curriculum to satisfy the didactic educational requirements for a California fluoroscopy permit. A minimum of forty (40) hours of lecture will include topics such as fluoroscopy regulations and radiation safety, fluoroscopic equipment, image intensifiers, closed-circuit equipment, image recording and image recording equipment, special fluoroscopic equipment, mobile image intensified units, anatomy and physiology of the eye and three-dimensional and radiologic anatomy. This is an advanced course in fluoroscopy and radiation protection for radiologic technology students. (FT) Associate Degree Credit only and not Transferable.

### 85L Fluoroscopy and Radiation Safety Laboratory

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Radiologic Technology 85.

*Corequisite:* Completion of or concurrent enrollment in: Radiologic Technology 220 and 230, each with a grade of "C" or better, or equivalent.

Activities include California state-mandated curriculum to satisfy the laboratory educational requirements for 1) general diagnostic radiologic technology (minimum of 25 hours), and 2) California fluoroscopy permit (minimum of 15 hours). Laboratory activities will include, but not be limited

to, 1) methods and safe practices to reduce radiation doses to patients and personnel in general and fluoroscopic procedures, 2) general and fluoroscopic image quality and recording, and 3) quality control procedures. This is an advanced laboratory course in fluoroscopy and radiation protection for radiologic technology students. (FT) Associate Degree Credit only and not Transferable.

### 105 Basic Radiologic Technology

**3 hours lecture, 3 units  
Grade Only**

*Corequisite:* Radiologic Technology 251A.

This course introduces the student to medical imaging: history, role and function of the radiographer, professional organizations, ethical and legal principles, California Title 17, and relationship of the profession to the health care delivery system. Medical and radiographic terminology, basic radiation, and electrical protection of patient and self; basic technical principles are included. (FT) AA/AS; CSU.

### 110 Recording Media and Processing

**2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Radiologic Technology 251C.

This course provides the student with knowledge of recording media utilized to produce diagnostic images. Various media acquisition techniques, image processing and storage are discussed including PACS (picture archiving and communications systems). (FT) AA/AS; CSU.

### 120A Radiographic Exposure

**2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Radiologic Technology 251C.

This course provides the student with the knowledge of factors that govern and influence the production of the radiographic image on recording media. (FT) AA/AS; CSU.

### 120B Radiographic Exposure Laboratory

**3 hours, 1 unit  
Grade Only**

*Corequisite:* Radiologic Technology 251C.

This laboratory course provides the student with clinical applications of the theory and concepts of radiographic exposure of Radiologic Technology 120A. Principles and techniques of daily photographic quality assurance are introduced. (FT) AA/AS; CSU.

**130 Patient Care****2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Radiologic Technology 251A.  
This course provides the student with basic concepts of integrated patient care within the radiology department including physical and psychological needs of the patient, venipuncture techniques with associated application in contrast media injection, treatments of complication and/or reaction to media injection. Routine and emergency patient care procedures are described as well as infection control procedures utilizing universal precautions. Common drug nomenclature and basic concepts of pharmacology are introduced. (FT) AA/AS; CSU.

**199 Radiographic Positioning I****1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Corequisite:* Radiologic Technology 251A.  
This is a course designed to introduce the student to the basic theories of standard radiographic positioning. Positioning considerations for routine radiographic procedures to image the upper and lower extremities, bony thorax, abdomen, and pelvis are identified and simulated in the laboratory setting. (FT) AA/AS; CSU.

**200 Radiographic Positioning II****1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Corequisite:* Radiologic Technology 251C.  
This is a course designed to relate the basic theories of standard radiographic positioning and procedures identified in RADT 199 to the standard radiographic positioning and procedures of the vertebral column, alimentary canal, urinary, biliary, and reproductive systems. Positioning considerations for routine procedures are identified and simulated in the laboratory setting. The associated radiographic is included. (FT) AA/AS; CSU.

**211 Radiographic Positioning III****1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Corequisite:* Radiologic Technology 252B.  
This is an advanced level course in radiologic procedures, radiographic positioning and radiographic associated pathology for, special procedures, mammography, pediatric, and interventional radiography. (FT) AA/AS; CSU.

**220 Radiographic Technique****3 hours lecture, 3 units  
Grade Only**

*Corequisite:* Radiologic Technology 252B.  
This is an advanced level course designed to study the theoretical and practical aspects relating to exposure techniques and radiographic quality. Primary emphasis is placed on problem solving and reasoning for practical image quality and improvement. (FT) AA/AS; CSU.

**230 Radiologic Science****2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Radiologic Technology 252B.  
This is an advanced level course to provide the student with a working knowledge of radiologic physics from x-ray generating equipment, beam characteristics to x-ray interaction. (FT) AA/AS; CSU.

**240 Radiation Biology****1 hour lecture, 1 unit  
Grade Only**

*Corequisite:* Radiologic Technology 253A.  
This is an advanced level course to study radiation hazards and the potential consequences to both the technologist and the patient. The most appropriate means of minimizing the radiation dose is emphasized with California's Title 17 radiation regulations as a foundation for discussion and application. (FT) AA/AS; CSU.

**241 Sectional Anatomy****3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Radiologic Technology 253A.  
This is a course to provide the student radiographer who possesses a background in general anatomy with an orientation to sectional anatomy and to correlate such with structures demonstrated on images from the various imaging modalities. (FT) AA/AS; CSU.

**242 Organization of Radiology****1 hour lecture, 1 unit  
Grade Only**

*Corequisite:* Radiologic Technology 253B.  
This advanced level course deals with the principles

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of organization, management, supervision, productivity levels and performance evaluations. Other topics include the legal and ethical aspects of radiographers as described in state licensure and national association regulations and standards, professional resumes, and the discussion of issues in the medical field as they impact medical imaging. (FT) AA/AS; CSU.

**244 CT and MRI Imaging**  
**3 hours lecture, 3 units**  
**Grade Only**

*Corequisite:* Radiologic Technology 253A.  
*Limitation on Enrollment:* Special Admission - must be admitted to program.  
 This is a course for radiologic technology students to study the imaging modalities of computer tomography (CT) and magnetic resonance (MR) imaging. The underlying physical principles, imaging methods, instrumentation, imaging manipulation and clinical use of the modalities in diagnostic imaging are explored. (FT) AA/AS; CSU.

**248 Mammography I**  
**1 hour lecture, 1 unit**  
**Grade Only**

*Corequisite:* Radiologic Technology 253A.  
*Limitation on Enrollment:* This course is not open to students with credit for Radiologic Technology 265: Mammography.  
 This is a comprehensive course to examine the basic principles of mammography and its clinical application in diagnosing breast disease. Essential background information in the early detection of breast cancer is also explored. (FT) AA/AS; CSU.

**251A Directed Clinical Practice**  
**3 units, 15 other hours**  
**Grade Only**

*Prerequisite:* Biology 160 with a grade of "C" or better, or equivalent.  
*Corequisite:* Radiologic Technology 105, Radiologic Technology 130 and Radiologic Technology 199.  
*Limitation on Enrollment:* Special Admission - must be admitted to program.  
 This course introduces the student to the supervised clinical hospital experience of the radiographer program. With direct supervision, the student observes and begins to perform radiographic procedures and examinations with utilizing medical ethics and patient care principles. Supervision is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.

**251C Directed Clinical Practice**  
**225 - hours other, 3 units**  
**Grade Only**

*Prerequisite:* Radiologic Technology 251A with a grade of "C" or better, or equivalent.  
*Corequisite:* Radiologic Technology 200  
*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Radiologic Technology 251B.  
 This course is designed to give radiologic technology students supervised clinical experience. The focus is placed on the safe, legal, ethical and effective application of procedures used in obtaining diagnostic radiographs of the vertebral column; digestive, urinary, hepatobiliary and reproductive systems. This course also fosters the development of communication skills, interpersonal relationships and professionalism required for the healthcare field. Supervision is shared by the staff of the clinical site and college faculty. (FT) AA/AS; CSU.

**252A Directed Clinical Practice**  
**375 hours other, 5 units**  
**Grade Only**

*Prerequisite:* Radiologic Technology 110, 120A, 120B, 200, and 251C, each with a grade of "C" or better, or equivalent.  
 This is a course to provide continued supervised clinical experience to demonstrate competency of recently taught radiographic procedures and examinations and to demonstrate continued competency of the exams previously evaluated. Supervision is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.

**252B Directed Clinical Practice**  
**375 hours other, 5 units**  
**Grade Only**

*Prerequisite:* Radiologic Technology 252A with a grade of "C" or better, or equivalent.  
*Corequisite:* Radiologic Technology 211, 220, and 230.  
 This is a course to provide continued supervised clinical experience to demonstrate continued competency and to introduce advanced procedures including special procedures, interventional and pediatric radiography. Special emphasis is placed on image quality and improvement analysis. Supervision is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.



**253A Directed Clinical Practice****375 hours other, 5 units  
Grade Only**

*Prerequisite:* Radiologic Technology 211, 220, 230, and 252B, each with a grade of "C" or better, or equivalent.

*Corequisite:* Radiologic Technology 240, 241, 244, and 248.

This is a course to provide demonstration of required positioning and procedure competencies and to begin documentation of final competency prior to program completion. In addition, the student begins rotations to augment their clinical experience in areas such as CT, MRI, special procedures and outpatient clinical centers. Supervision of the student is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.

**253B Directed Clinical Practice****375 hours other, 5 units  
Grade Only**

*Prerequisite:* Radiologic Technology 240, 241, 244, and 253A, each with a grade of "C" or better, or equivalent.

*Corequisite:* Radiologic Technology 242.

This is a course to provide integration of all program objectives and to provide documentation of final competencies in preparation for licensure examinations and program completion. Supervision of the student is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.

**Real Estate (REAL)****101 Real Estate Principles****3 hours lecture, 3 units  
Grade Only**

This course covers the fundamentals of the economics of land ownership and use and the responsibility of broker, owner and purchaser; terminology and definitions and the varied vocational opportunities in the general field of real estate are also covered. Completion of this course is required prior to taking the exam for the California Real Estate Salesperson's License. This course also applies as an elective toward the State's educational requirements for the broker's examination. (FT) AA/AS; CSU.

**105 Legal Aspects of Real Estate I****3 hours lecture, 3 units  
Grade Only**

This course is a study of California Real Estate law. Emphasis is placed on the practical application of the law to legal problems arising from real estate transactions, statutory enactment and case law, legal instruments, zoning ordinances, and city and county planning decisions. This course applies toward the State's educational requirements for the broker's examination and as an elective for the salesperson's license. (FT) AA/AS; CSU.

**110 Principles of Real Estate Appraisal I****3 hours lecture, 3 units  
Grade Only**

This course is a study of basic appraisal principles, market analysis and highest and best use. Emphasis is placed on providing students with an overview of real property concepts and characteristics, legal consideration, value influences, real estate finance, types of value, economic principles, real estate markets and analysis, and ethics in appraisal practice. Course content also includes the tools needed to properly collect and analyze market data including market segmentation and disaggregation, supply side analysis, demand analysis and highest and best use. This course applies toward the new 2008 basic educational requirements of the Office of Real Estate Appraisers for the California Real Estate Appraisal license and is structured to comply with the 2008 curriculum requirements of the Appraisal Qualifications Board. (FT) AA/AS; CSU.

**111 Introduction to Uniform Standards of Professional Appraisal Practice (USPAP)****1 hour lecture, 1 unit  
Grade Only**

*Advisory:* Real Estate 110 with a grade of "C" or better, or equivalent.

This course is a practical study of the appraisal profession and its application of the Uniform Standards of Professional Appraisal Practice (USPAP). Course content includes a history of the appraisal industry, USPAP rules and standards, and an overview of The Appraisal Foundation (TAF), the Appraisal Standards Board (ASB), the Appraiser Qualifications Board (AQB) and the Appraisal

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Subcommittee (ASC). This course satisfies the AQB and the California Office of Real Estate Appraisers (OREA) 15-hour USPAP requirements as part of the 150 hours of required education for the Appraiser Trainee License. (FT) AA/AS; CSU.

### 115 Real Estate Finance I

**3 hours lecture, 3 units  
Grade Only**

This course analyzes the financing of real estate. Topics will include types of financing sources; loans and loan processing; governmental loans, methods of financing residential properties; with an overview of financing business, income, commercial and industrial properties; and property appraisal and taxation. This course applies toward the State's educational requirements for the broker's examination and as an elective for the salesperson's license. (FT) AA/AS; CSU.

### 120 Real Estate Practice

**3 hours lecture, 3 units  
Grade Only**

This course examines the principles of real estate practice as they pertain to day-to-day operations in a real estate office. Topics include listings, valuations, prospecting, selling, financing, exchanges, taxation and specialized brokerage operations. Professional and ethical activities are stressed. This course applies toward the State's educational requirements for the broker's examination and as an elective for the salesperson's license. (FT) AA/AS; CSU.

### 125 Real Estate Economics

**3 hours lecture, 3 units  
Grade Only**

This course deals with trends and factors that affect the value of real estate; the nature and classification of land economics; the development of property, construction and subdivision, economic values and real estate evaluation; real estate cycles and business fluctuations; residential market trends; real property and special purpose property trends. This course applies toward the State's educational requirements for the broker's examination and as an elective for the salesperson's license. (FT) AA/AS; CSU.

### 130 Real Property Management

**3 hours lecture, 3 units  
Grade Only**

This course is a practical approach to the principles and practices of managing income properties, including leasing, tenant relations, collections, and

rent schedules; budgets and purchasing; market economics; landlord-tenant law, evictions, prohibited discrimination, property maintenance; taxation; and record keeping, and marketing. This course applies as an elective toward the State's educational requirements for the broker's examination and for the salesperson's license. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Russian (RUSS)

### 101 First Course in Russian

**5 hours lecture, 5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

This is an entry level course designed to introduce students to the Russian language and cultures of the Russian-speaking world. In this interactive course, students learn and use the language by speaking, listening, reading, and writing at the novice level. Basic language structures and vocabulary for communication are examined and explored in Russian. (FT) AA/AS; CSU; UC Transfer Limitation: Corresponds to two years of high school study.

### 102 Second Course in Russian

**5 hours lecture, 5 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Russian 101 with a grade of "C" or better, or equivalent.

This course is a continuation of Russian 101, developing language competency and an understanding of the Russian culture. In this interactive course, students are listening, reading, speaking, and writing beyond the novice level. The students develop their receptive and productive competencies to the low-intermediate or mid-intermediate level. Additional language structures and vocabulary for communication are examined and explored in Russian. (FT) AA/AS; CSU; UC.

**201 Third Course in Russian****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Russian 102 or three years of high school Russian with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in: Russian 296.

This is the third course in the Russian language sequence. In this interactive course, students use the language through speaking, listening, reading, and writing at the intermediate level. More complex language structures and vocabulary for communication are examined and explored as well as the literary and historical aspect of Russian culture. This course is appropriate for students interested in continuing their study of the Russian language and culture as well as for students who need to meet language proficiency or general education requirements in the humanities. AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Sociology (SOCO)**

**101 Principles of Sociology****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

The basic facts, concepts and generalizations of sociology are covered. Content includes the scientific study of social interaction and organization with special reference to present-day America, including cross-cultural and multicultural analysis. This course is useful for those considering careers in counseling, teaching, social work, and nursing. AA/AS; CSU; UC  
Transfer Limitation: Sociology (SOCO) 101 and Black Studies (BLAS) 115 combined: maximum credit, one course.

**110 Contemporary Social Problems****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course requires students to identify and analyze present day social problems in the United States, with emphasis on sociological factors involved, while including cross-cultural and multicultural analysis. Students will use scientific methods of approaches to and criteria for evaluating proposals for social betterment. This course is useful for students pursuing careers in criminology, counseling, education, law, medicine, and dental hygiene. (FT) AA/AS; CSU; UC.

**125 Sociology of the Family****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

This course is a study of the structures and functions of the family as a social, cultural and historical institution in the United States and throughout the world. Emphasis is placed on an analysis of the family's relationship to economic structures, political institutions and belief systems. Topics include definitions of family, gender roles and family stability. This course is intended for students majoring in sociology, psychology, social work and counseling as well as any student interested in the study of the family as an institution. (FT) AA/AS; CSU; UC.

**201 Advanced Principles of Sociology****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5.

A course designed to continue the examination of the major ideas that have shaped contemporary sociology. Special attention is given to classical social thinkers and to the origin of sociology as a science. AA/AS; CSU; UC.

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**223 Globalization and Social Change**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent, or Assessment Skill Levels R6 and W6; Sociology 101 with a grade of "C" or better, or equivalent.

This course evaluates the social and political changes brought on by globalization among industrialized, industrializing, and underdeveloped nations. It presents arguments and theories for and against globalization and supplements with empirical examples. The course is useful for those considering careers in law, politics, business, teaching, and non-profit organizations dealing with human rights issues, political advocacy, and international affairs. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Spanish (SPAN)**

**100 First/Second Course in Spanish**  
**(Accelerated)**

**10 hours lecture, 10 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 43 with a grade of "C" or better, or equivalent, or Assessment Skill Level W4; and concurrent enrollment in Spanish 296.

*Limitation on Enrollment:* This course is not open to students with credit for or concurrent enrollment in Spanish 101 or 102.

This course in Spanish is designed to serve as a combination of the two beginning Spanish courses, Spanish 101 and 102. This is an entry-level course to the Spanish language and cultures of the Spanish-speaking world. In this interactive course, students use the language through speaking, listening, reading, and writing. The students develop their receptive and productive competencies to the intermediate low or mid level. Language structures and vocabulary for communication are examined and explored in Spanish. (FT) AA/AS; CSU; UC

Transfer Limitation: Spanish (SPAN) 100, 101-102 combined: maximum credit, 10 units.

**101 First Course in Spanish**  
**5 hours lecture, 5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 43 with a grade of "C" or better, or equivalent, or Assessment Skill Level W4.

*Limitation on Enrollment:* This course is not open to students with previous credit for or concurrent enrollment in Spanish 100.

This entry level course introduces students to the Spanish language and cultures of the Spanish-speaking world. In this interactive course, students learn and use the language by speaking, listening, reading, and writing at the novice level. They also examine and explore basic Spanish language structures and vocabulary. This course is intended for beginning students who seek basic proficiency in the Spanish language, students who want to take other Spanish courses, and students who want to learn Spanish for their personal enrichment. (FT) AA/AS; CSU; UC Transfer Limitation: Spanish (SPAN) 100, 101-102 combined: maximum credit, 10 units.

**102 Second Course in Spanish**  
**5 hours lecture, 5 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 101 with a grade of "C" or better, or equivalent, or two years of high school Spanish with a grade of "C" or better, or equivalent.

*Advisory:* English 43 with a grade of "C" or better, or equivalent, or Assessment Skill Level W4.

*Limitation on Enrollment:* This course is not open to students with previous credit for or concurrent enrollment in Spanish 100.

In this interactive continuation of first-semester Spanish, students develop listening, reading, speaking, and writing skills at a more complex level. Students further develop their receptive and productive competencies to the intermediate low/mid level. The course explores additional Spanish language structures and vocabulary for communication. This course is intended for students who want to further their basic proficiency in the Spanish language, students who want to take a third-semester Spanish course, and students who want to continue learning Spanish for their personal enrichment. (FT) AA/AS; CSU; UC Transfer Limitation: Spanish (SPAN) 100, 101-102 combined: maximum credit, 10 units.

**201 Third Course in Spanish****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 102 with a grade of "C" or better, or equivalent, or three years of high school Spanish. This course is an interactive study of Spanish at the intermediate level with increased emphasis on reading and writing while listening and speaking skills continue to develop. The course material emphasizes formal study of the language structure and further development of vocabulary and functional competence. The course also provides for increased awareness of cultural norms, values, and culturally relevant and appropriate customs and events. The content is expanded beyond "survival" needs in the immediate environment and deals in greater detail in areas such as the arts, the environment, social interactions, careers and professions and general feelings. This course is intended for students who are planning to major in Spanish as well as those who are interested in studying the language. (FT) AA/AS; CSU; UC Transfer Limitation: Spanish (SPAN) 201-202 and Chicano Studies (CHIC) 203-204 combined: maximum credit, one series.

**202 Fourth Course in Spanish****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 201 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with credit for Spanish 200.

This course is offered as an advanced intermediate level course. It reviews and furthers grammatical features in Spanish through oral and written communication within a cultural background. Readings of literary and/or culturally relevant authentic materials are examined in depth. (FT) AA/AS; CSU; UC Transfer Limitation: Spanish (SPAN) 201-202 and Chicano Studies (CHIC) 203-204 combined: maximum credit, one series.

**210 Conversation and Composition Spanish I****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 102 with a grade of "C" or better, or equivalent.

This course further develops oral comprehension and fluency as well as written communication at a mid-intermediate level in Spanish through culturally relevant materials. Students increase vocabulary, dramatize everyday topics of conversation, interpret

and describe materials, and compare and contrast Latin American and Spanish cultures with U.S. culture both orally and in writing. Writing strategies are emphasized and literature is introduced. This course is intended for students who want to enhance their skills in the Spanish language. (FT) AA/AS; CSU; UC.

**211 Conversation and Composition Spanish II****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 210 with a grade of "C" or better, or equivalent.

This course further develops oral comprehension and fluency as well as written communication at an advanced intermediate level in Spanish through culturally relevant materials. Students further increase vocabulary, dramatize everyday topics of conversation, interpret and describe materials, and compare and contrast Latin American and Spanish cultures with U.S. culture, both orally and in writing. Pre-reading strategies introduced in Spanish 210 are used as a basis upon which to build course emphasis in reading. More literature is introduced. This course is intended for students who want to further enhance their skills in Spanish. (FT) AA/AS; CSU; UC.

**215 Spanish for Spanish Speakers I****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 102 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Spanish 201.

This course is designed for students who are fluent in spoken, informal Spanish and who need to improve their writing, reading, and grammar skills. Emphasis is on the mastery of formal, written communication skills in Spanish at the intermediate level, and the study of Hispanic and Chicano culture through reading relevant, authentic materials. The course focuses on language challenges particular to Spanish speakers such as orthography, the inappropriate mix of English and Spanish in certain contexts, and contrasts between standard Spanish and regional variations. This course is conducted entirely in Spanish. (FT) AA/AS; CSU; UC.

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**216 Spanish for Spanish Speakers II****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 215 or Spanish 201 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Spanish 202, or to Spanish speakers who have received the equivalent of a high school degree in a Spanish speaking country.

This course is the continuation of Spanish 215. It is designed for students who are fluent in spoken, informal Spanish and who need to improve their writing, reading, and grammar skills. It furthers the mastery of formal, written communication in Spanish at the intermediate-advanced level, while integrating instruction in Hispanic and Chicano culture through increased practice in intermediate-advanced level readings, relevant, and authentic materials. The course focuses on language challenges that Spanish speakers still encounter at intermediate-advanced level, such as orthography, the inappropriate mix of English and Spanish in specific contexts, and standard Spanish as contrasted with regional variations. This course is conducted entirely in Spanish. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

**SPECIAL EDUCATION**

(See Disability Support Programs and Services, page 335)

**SPEECH COMMUNICATIONS**

(See Communication Studies, page 311)

**Tagalog (TAGA)****101 First Course in Tagalog****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 43 with a grade of "C" or better, or equivalent, or Assessment Skill Level W4.

This course in Tagalog is the first in its language sequence. This is an entry-level course to the Filipino language and culture. In this interactive course, students use the language through speaking, listening, reading, and writing at the novice level. Basic language structures, appropriate forms of address, and vocabulary for communication are examined and explored. (FT) AA/AS; CSU; UC Transfer Limitation: Corresponds to two years of high school study.

**102 Second Course in Tagalog****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Tagalog 101 with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in: Tagalog 296.

This course in Tagalog is the second in its language sequence. This course reinforces Filipino culture and Tagalog language concepts studied in the first semester course and introduces additional Filipino cultural and language structures at the low-intermediate level. This interactive course builds on the basic Tagalog language structures and adds new structures through speaking, listening, reading, and writing at the low-intermediate level of grammar mastery. (FT) AA/AS; CSU; UC.

**201 Third Course in Tagalog****5 hours lecture, 5 units****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Tagalog 102 with a grade of "C" or better, or equivalent.

This is an intermediate course and is the third in its language sequence. In this interactive course, students use the language through speaking, listening, reading, and writing at the intermediate level. More complex language structures and vocabulary for communication are examined and explored. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Vietnamese (VIET)

### 101 First Course in Vietnamese

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 with a grade of "C" or better, or equivalent, or Assessment Skill Level R5.

*Advisory:* Concurrent enrollment in: Vietnamese 296. This is the first course in Vietnamese with emphasis on understanding, speaking and reading the language of everyday life. In this interactive course, the elements of grammar are examined with practice in writing Vietnamese, using the subject matter relating to the culture and traditions. Basic language structures and vocabulary for communication are examined and explored in Vietnamese. This course may especially be of interest to students preparing for a career in education. (FT) AA/AS; CSU; UC  
Transfer Limitation: Corresponds to two years of high school study.

### 102 Second Course in Vietnamese

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Vietnamese 101 with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in: Vietnamese 296. This is a continuation of Vietnamese 101. In this interactive course, students use listening, reading, speaking and writing at more complex levels. The students further develop their receptive and productive competencies to the intermediate low or mid level. The elements of grammar are examined with practice in writing Vietnamese, using the subject matter relating to the culture and traditions. This course is intended for students interested in languages and for those interested in further academic study of Vietnamese. (FT) AA/AS; CSU; UC.

### 201 Third Course in Vietnamese

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Vietnamese 102 with a grade of "C" or better, or equivalent.

*Advisory:* English 43 with a grade of "C" or better, or equivalent, or Assessment Skill Level W4; and concurrent enrollment in: Vietnamese 296. This is an intermediate course and is the third in the Vietnamese language sequence. In this interactive course, students use the language through speaking, listening, reading, and writing at the intermediate

level. More complex language structures and vocabulary for communication are examined and explored as well as literary and historical aspects of Vietnamese culture. (FT) AA/AS; CSU; UC.

*This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (044), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 256. Please refer to the class schedule and/or see the dean or department chair for availability.*

## Web Development (WEBD)

### 162 Beginning Web Site: HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)

**1.5 hours lecture, 1.5 hours lab, 2 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5; Computer Business Technology 101, 114 and 161, each with a grade of "C" or better, or equivalent.

This course introduces students to sound practices in creating a Website using HyperText Markup Language (HTML) and Cascading Style Sheets (CSS). Students create, validate and publish Websites to the Internet following Web standards. This course is intended for beginning Web design students and anyone interested in a career that requires skills and knowledge in Website construction. This course may be repeated three times as technology changes. (FT) AA/AS; CSU.

### 165 Beginning Web Design: Dreamweaver

**2 hours lecture, 3 hours lab, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5; Computer Business Technology 101, 114 and 161, each with a grade of "C" or better, or equivalent.

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This course introduces students to sound practices in creating a Website using Dreamweaver to write HyperText Markup Language (HTML) and Cascading Style Sheets (CSS). Emphasis is placed on the Dreamweaver interface, features and functionality. Students create, validate and publish Websites to the Internet following Web standards. This course is intended for beginning Web design students and anyone interested in a career that requires skills and knowledge in Website construction. This course may be repeated three times as technology changes. (FT) AA/AS; CSU.

### **166 Database Driven Website Development in Dreamweaver**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 101, 114, 153, and 161; and Computer Business Technology 162 or 165; or Multimedia 127, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Computer Business Technology 166.

This course is a hands-on study of the skills required to build and manage dynamic database driven websites. Students create database-driven websites to support eCommerce and dynamically built pages. This course is designed for all students and professionals who wish to acquire skills in website creation and development. This course may be repeated three times to update skills as technology changes. (FT) AA/AS; CSU.

### **168 Cascading Style Sheets (CSS) for Web Design**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 48 and English 49, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels R5 and W5; Computer Business Technology 101, 114, 161, and 162 or 165 and Multimedia 127, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Computer Business Technology 168.

This course is a hands-on study of Cascading Style Sheets (CSS) in creating Web standards-compliant sites. Emphasis is placed on the use of CSS to format and position elements in Hypertext Markup Language (HTML) and/or Extensible Hypertext Markup Language (XHTML) and applying best

practices. Students apply CSS concepts and rules of specificity to achieve the design goals of a published Web site by hand coding and using an HTML editor, such as Dreamweaver. This course is designed for students studying web design and professionals updating their skills. This course may be repeated three times to update skills as CSS and Web technologies change. (FT) AA/AS; CSU.

### **169 Website Customization Using Open Source Interactive Tools**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 101, 114, 161 and 162 or 165; and Multimedia 101 and 127, each with a grade of "C" or better, or equivalent.  
*Limitation on Enrollment:* This course is not open to students with previous credit for Computer Business Technology 169.

This course is a hands-on study of website customization using open source tools. Emphasis is placed on creating and maintaining blogs and content management system (CMS). Students create and manage email and listservs, and manage tools and features available through a web hosting provider. This course is intended for students studying web design and professionals updating their skills. This course may be repeated three times to update skills as technologies change. (FT) AA/AS; CSU.

### **170 Javascript Fundamentals for Web Development**

**16 - 18 hours lecture, 48 - 54 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 162, Web Development 162 or 165 and 168 each, with a grade of "C" or better, or equivalent.

This course is a practical study of Javascript and jQuery for Web development. Students use Javascript and jQuery in the Web Page creation process to enhance the user experience. This course is designed for students and professionals who wish to develop skills in Javascript and jQuery. This course may be repeated three times to update skills as technology changes. (FT) AA/AS; CSU.

### **191 Capstone in Web Design**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 101 or 102 or 103; and Computer Business Technology 114, 161, 162, 165 and 169; and Multimedia 101, each with a



grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Computer Business Technology 191.

In this capstone course, students form teams to design and develop an advanced Website. Emphasis is placed on the processes and methodologies used in industry, including working with the client, creating website content, and optimizing the site to ensure usability, findability and accessibility. This course is designed for students studying web design and professionals updating their skills. This course may be repeated three times to update skills as technologies change. (FT) AA/AS; CSU.

### Work Experience, Cooperative (WORK)

**OCCUPATIONAL WORK EXPERIENCE** is a program of on-the-job learning experiences for students employed in jobs related to an occupationally oriented major. The goals and course assignments for completion of the courses are formulated with industry under the direction of the college instructor assigned to teach Work Experience 270. The grading system is the same as for other subjects offered by the college, and the time spent for preparation and training is comparable. Adequate records are maintained to determine satisfactory progress and attendance.

### Student Learning Outcomes

Students will be able to:

- Apply critical thinking, research, analysis and resolution for work-related and personal objectives.
- Convert classroom instruction to the employment environment through the development and attainment of three (3) learning objectives.
- Write Specific, Measurable, Achievable, Relevant and Timely (S.M.A.R.T.) objectives related to new or expanded workplace responsibilities.
- Develop and apply personal skills, attitudes, and competencies in the workplace and within course-related activities.
- Demonstrate effective communication and technological awareness through the use of technologies (internet, email and telephone) in ways appropriate to the course.

- Demonstrate accountability for their personal actions at work and as it relates to course.
- Research resources for education and/or career options.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

### 270 Occupational Work Experience

**Hours by Arrangement**

**(One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work.)**

**1-4 units**

**Grade Only**

A program of on-the-job learning experiences for students employed in a job related to their major or their educational goals. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. AA/AS; CSU.

### 272 General Work Experience

**Hours by Arrangement**

**(One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work.)**

**1-3 units**

**Grade Only**

*Limitation on Enrollment:* Must obtain an Add Code from Work Experience Coordinator for enrollment. A program of on-the-job learning experiences designed to assist the student in developing occupational effectiveness. Employment need not be related to a vocational or occupational major. This course may be taken for a maximum of six units. However, the combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. AA/AS; CSU.

**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable



# San Diego Mesa College Faculty & Administrators



**ABAJIAN, Mark E.**

Economics  
B. A., M.A., San Diego State  
University

**ABBOTT, Donald R.**

History  
B. A., M.A., San Diego State  
University  
Ph.D., University of California,  
San Diego

**ADAMS, Paul**

Physical Education  
B.A., San Diego State University

**ADELSON, Evan**

Sociology  
B.A. Haverford College, PA  
Ph.D. University of California,  
San Diego

**ADONA, Gabriel Aeria**

Counselor  
B.A., M.S., San Diego State  
University

**ALEXANDER, Edward**

Chemistry  
B.S., City College of the City  
University of New York  
Ph.D., State University of New  
York, Buffalo

**ALLRED, Christie**

English/ESL  
B.A., M.A., San Diego State  
University

**ARNOLD, Rebecca S.**

Economics  
B.S., University of Arkansas,  
Fayetteville  
M.A., San Diego State University

**AVORH, John**

Political Science  
B.A., University of Ghana,  
Ghana  
M.A., Baylor University, Texas  
M.A., Syracuse University, NY  
Ph.D., Atlanta University, GA

**BAKER, Jill**

Dean, School of Computer  
Studies and Technologies  
B.A., University of California,  
Riverside  
M.L.S., San Jose State University  
Ed.D., San Diego State  
University

**BARRIE, Donald S.**

Geology  
B.S., Humboldt State University  
M.S., New Mexico Institute of  
Mining and Technology

**BARRINGTON, Elizabeth**

Health Education  
A.A., Miramar College  
B.A., National University  
M.A., San Diego State University

**BASS, Alan L.**

Mathematics  
B.S., M.S., University of North  
Carolina, Wilmington

**BAUTISTA, Manny**

Physical Education, Cross Country  
A.A., South Plains Community  
College  
B.S., California Polytechnic State  
University  
M.S., Kansas State University

**BEAVER, Henry**

Instructional Systems Specialist  
B.A., Macalester College,  
M.S., Minnesota State  
University Mankato

**BELEW, Sandra**

Mathematics  
B.A., M.A., University of  
California, San Diego

**BERGER, Kenneth J.**

Geography  
B.S., Pace University  
M.S., New York University  
M.A., San Diego State University  
Ph.D., University of California,  
Los Angeles

**BERMANN-ENN, Beate**

Art History  
B.A., M.A., California State  
University, Long Beach

**BERRY, George (Jeff)**

Spanish  
B.A., M.A., San Diego State  
University

**BERTSCH, Catherine M.**

Clinical Coordinator, Radiologic  
Technology  
A.S., Mesa College  
B.S., M.Ed. San Diego State  
University

**BETSCHART, Nathan J.**

Fine Art (Ceramics)  
B.A., Humboldt State University  
M.F.A., San Diego State  
University

**BINGHAM, Leela**

Spanish  
B.A., M.A., San Diego State  
University

**BLAKE, Joi Lin**

Dean, Student Development and  
Matriculation  
B.A., San Francisco State  
University  
M.S., San Diego State University  
Ed.D. San Diego State University

**BRAHMBATT, Anar A.**

Biology  
B.S., University of California, Los  
Angeles  
Ph.D., Loyola University of  
Chicago

**BRAUN, Janna B.**

English (Journalism)  
B.A., California State University,  
Northridge  
M.A., University of Southern  
California

**BRAY, Nancy**

Mathematics, Computer Science  
B.A., Occidental College  
M.S., San Diego State University

**BROMMA, Nancy**

Nurse Practitioner (Restricted)  
A.A., Clark State Community  
College  
B.S.N., M.S.N., University of San  
Diego

**BROTHERS**, William  
Biology/Anatomy/Physiology  
B.A., M.S., San Diego State  
University

**BROWN**, Michael  
Mathematics  
B.A., Westmont College  
M. A., University of California,  
San Diego

**BROWNE**, Henry D.  
Physical Education (Football)  
B.S., University of California, Los  
Angeles  
M.A., San Diego State University

**BUCHANAN**, Barbara  
American Sign Language  
B.A., M.A., Gallaudet University  
BUDZYNSKI, Donna  
Chemistry  
B.S., M.S., Ph.D., University of  
Illinois

**CARSON**, Kristina M.  
Counselor/Generalist, MAAP  
Coordinator  
B.A., San Diego State  
University  
M.A., University of San Diego

**CHAGNON**, Richard  
Music  
B.S., University of Connecticut  
at Storrs  
M.F.A., University of California,  
Irvine  
D.M.A., Arizona State University

**CHAPMAN**, Pamela  
Landscape/Architecture  
B.L.A., University of Oregon  
M.S., National University

**CHU**, Elizabeth C.  
Nutrition  
B.S., Oregon State University  
M.S., Boston University  
R.D., Harvard Medical Center  
(Peter Bent Brigham Hospital)

**CHUN**, Aulani  
Physical Education  
B.A., Long Beach State  
University

**CLARK**, Kristan  
Drama  
B.A., M.F.A., University of  
California, Davis

**CLARY**, William  
American Sign Language  
B.S., Gallaudet College  
M.S., California State University,  
Northridge  
Ed.D., University of Southern  
California

**CLOUD**, Leslie  
Computer Business Technology  
B.S., Arizona State University,  
Tempe  
M.B.A., National University,  
San Diego

**CLYMER**, Janice J.  
Biology  
B.A., Swarthmore College  
Ph.D., University of California,  
Irvine

**COLLINS**, Jarred T.  
Math (ACP)  
B.S., St. Thomas Aquinas  
College  
M.S., Rhode Island College  
Ph.D., University of Rhode  
Island

**COOPER**, Darius  
English  
B.A., Xavier College, Bombay,  
India  
M.A., University of Bombay,  
India  
M.A., Ph.D., University of  
Southern California

**COST**, Jennifer  
English  
B.A., Humboldt University  
M.A., San Diego State University

**COVINGTON**, Lori R.  
Program Director Radiologic  
Technology  
B.S., M.S., University of  
Northern Iowa

**CRAFT**, William  
Dean, Learning Resources and  
Technology  
B.A., Michigan State University  
M.A., St. John's College,  
Maryland

**CRAKES**, Ailene  
Counselor  
B.S., California Polytechnic  
University  
M.S., National University

**CRESWELL**, Laura  
Mathematics  
B.A., M.A., University of  
California, San Diego

**CRIVELLO**, Michael  
Physics  
B.S., San Diego State University  
M.S., University of California,  
Riverside

**CROCITTI**, John  
History  
B.A., University of Texas,  
Arlington  
M.A., Tulane University  
Ph.D., University of Miami,  
Florida

**CURRAN**, Todd  
Physical Education, Women's  
Soccer  
B.A., University of California,  
San Diego  
M.S., California Polytechnic  
State University, San Luis  
Obispo

**DAMOOSE**, Alison D.  
Mathematics  
B.S., University of California,  
Berkeley  
M.A., University of California,  
San Diego

**DAWES**, J. Chris  
Biological Sciences  
B.S., M.S., San Diego State  
University

**DEBCHAUDHURY**, Sudata  
Social Sciences  
B.A., Presidency College,  
Calcutta, India  
M.A., Jadaupur, Calcutta, India  
M.A., Ohio University, Athens  
Ph.D., University of Illinois

**De LEON**, Raul  
Spanish and French  
B.A., M.A., San Diego State  
University  
M.A., University of California,  
San Diego

**DINES**, Adrienne Aeria  
Counselor  
B.A., University of California,  
San Diego  
M.A., San Diego State University

**DOUGHERTY**, Nereida (Nelly)  
Counselor/Outreach Coordinator  
(EOPS)  
A.A., Fashion Institute of Design  
and Merchandising (FIDM)  
B.A., San Diego State University  
M.A., University of San Diego

**DUCHOW**, Donna  
English (ESL)  
B.A., Sweet Briar College  
M.A., San Diego State University

**DUPRAW**, Christine M.  
Nutrition  
B.A., San Diego State University  
M.P.H., R.D., University of  
California, Berkeley  
Ed.D., University of Southern  
California

**EDMUNDSON**, Ronn  
English  
B.A., Bishop College, Dallas  
M.A., Brown University

**EIDGAHY**, Saeid  
Dean, Mathematics & Natural  
Sciences  
B.S., M.Ed., Ph.D., Bowling Green  
State University

**ELLIS**, Jan  
Physical Education  
B.F.A., University of California,  
Irvine

**ELLOIE**, Louis Jr.  
Psychology  
B.A., Dillard University, New  
Orleans, La.  
M.A., University of South  
Carolina

**ENGLISH**, Russell D.  
Computer and Information  
Science (CISC)  
B.V.Ed., San Diego State  
University  
B.S., National University

**EVANS**, Dave  
Dean, Physical Education, Health  
Education, & Athletics  
B.S., Missouri Southern State  
College  
M.S., Northwest Missouri State  
University

**FARAHNI**, Sam  
Political Science  
B.A., National University &  
University of California, Santa  
Barbara  
M.A. University of California,  
Riverside and University of  
Southern California  
Ph.D., University of Southern  
California

**FARNAN**, Linda M.  
Speech Communications/Co-  
Director, Speech & Debate Team  
B.A., M.A., San Diego State  
University

**FEGAN**, James  
Physical Education, Aquatics  
B.A., M.A., California State  
University, Chico

**FENDER**, Rob  
Architecture  
B.A., Arizona State University

**FICKESS**, Margaret  
Professor/Program Director,  
Dental Assisting  
B.A., M.A., San Diego State  
University

**FIELDS**, Edwin H.  
Political Science (ACP)  
B.S., Bradley University  
M.P.A., University of Arizona,  
Tucson  
J.D., University of Kansas School  
of Law  
Ph.D., University of Virginia,  
Charlottesville

**FISCHER**, Peggy  
Program Director, AHT  
B.S., D.V.M., University of  
California, Davis

**FITZGERALD**, Michael John  
Culinary Arts  
A.A., Mesa College  
Certificate from the American  
Hotel & Lodging Educational  
Institute

**FLOR**, Shirley  
Counselor  
B.A., M.S., San Diego State  
University

**FOHRMAN**, Jonathan L.  
Dean, Arts and Languages  
A.A.S., Shoreline Community  
College  
B.A., M.A., University of  
Washington, Seattle

**FREMLAND**, Robert J.  
Chemistry  
B.S., Fresno State University  
M.S., University of California,  
San Diego

**FRITCH**, Margie  
Dean, Health Sciences and Public  
Service  
B.S., San Diego State University  
M.S., Alliant University

**FURROW**, Dwight  
Philosophy  
B.A., California State University,  
Northridge  
Ph.D., University of California,  
Riverside

- GEE, Roger**  
Accounting  
B.S., Ithaca College, New York  
M.S., National University  
C.P.A., State of California
- GEIDA, Karen**  
Counselor, EOPS  
B.S., Springfield College,  
Massachusetts  
M.S., San Diego State University
- GELLER, Anne**  
Biology  
B.S., D.C., Los Angeles College  
of Chiropractic
- GERGENS, Dwayne**  
Chemistry  
B.S., California State University,  
Long Beach  
Ph.D., University of California,  
Irvine
- GERHARDT, Kimberly J.**  
Speech Communications  
B.A., M.A., San Diego State  
University
- GIBSON, Lou Ann**  
Consumer Studies  
B.A., M.S., San Diego State  
University
- GOLDSTEIN, Michael J.**  
Physics  
B.S., University of  
Massachusetts at Amherst  
M.S., Ph.D., Florida State  
University
- GONZALES, Myra**  
Counselor (EOPS)  
B.A., M.Ed., San Diego State  
University
- GONZALEZ, Guadalupe**  
Counselor  
B.A., California State University,  
San Marcos  
M.A., San Diego State University
- GREGG, John**  
English  
B.A., University of California,  
San Diego  
M.A., University of California,  
Los Angeles
- HALCOTT, Joseph**  
American Sign Language  
B.A., Gallaudet College  
M.A., University of New Mexico
- HALL, Dana**  
English  
A.A., Orange Coast Community  
College  
B.A., California State University,  
Long Beach  
M.F.A., Bowling Green State  
University
- HAMANAKA-HOLDEN, Miyoko**  
Japanese  
B.A., B.A., M.A., San Diego State  
University
- HANDS, Ashanti**  
Dean, Student Affairs  
B.A., University of California,  
San Diego  
M.A., San Diego State University
- HARTER, James**  
Mathematics  
B.A., M.A., San Diego State  
University
- HAZLETT, Kevin J.**  
Physical Education (Baseball)  
B.A., Point Loma Nazarene  
College  
M.A., Azusa Pacific University
- HELSCHER, Edward M.**  
Physical Education (Basketball)  
B.A., University of San Diego  
M.S.S., United States Sports  
Academy
- HIGGINBOTHAM, Erika**  
Adapted Computer Technology  
Specialist, DSPS  
B.A., Western Michigan  
University  
M.S., San Diego State University
- HINKES, Madeleine**  
Anthropology  
B.A., Northwestern University  
M.A., University of Kansas  
Ph.D., University of Arizona
- HJORTH-GUSTIN, Paula**  
Chemistry  
B.A., University of California,  
San Diego  
M.A., San Diego State University  
Ed.D. Alliant International  
University
- HODNICK, Holly**  
Interior Design  
A.A., San Jose City College  
B.A., B.S., San Jose State  
University
- HOFFMAN, Andrew J.**  
English  
B.A., University of California,  
Irvine  
M.A., Syracuse University
- HOLTON, Katie**  
Speech Communication  
B.A., George Fox College,  
Newberg, Oregon  
M.A., University of California,  
Davis
- HORSMAN, Larry**  
Building Construction Technology  
B.S., M.S., San Diego State  
University
- HOWARD, Laleh Shojania**  
Mathematics  
B.S., M.S., San Diego State  
University
- HUENEBERG, Elizabeth L.**  
Speech Communication  
B.A., M.A., San Diego State  
University
- HUGHES, Sharon M.**  
Mathematics (ACP)  
B.A., University of California,  
San Diego  
M.S., Ph.D., Virginia Polytechnic  
Institute and State University
- HUNT, Socorro Cazares**  
Mathematics  
B.A., University of San Diego  
M.A., University of California,  
San Diego  
M.A., San Diego State University

**ISRAEL, Ron J.**  
English  
B.A., University of Arizona  
M.A., San Diego State University

**JANSEN, Jill**  
Disability Support Programs and Services  
B.S., Northwestern University,  
M.A., United States  
International University,  
San Diego

**JEFFERIES, Shadrick**  
Business/Real Estate  
B.S., Southwest Texas State  
University  
J.D., University of Texas

**JOHNSON, Leroy S.**  
Counselor  
B.S., M.S., Chaminade University

**KALCK, Christopher D.**  
Counselor  
B.A., California State University,  
San Marcos  
M.A., San Diego State University

**KANEVSKY, Inna Glaz**  
Psychology (Learning)  
B.S., State Teachers' Institute,  
Nikolayev, Ukraine  
M.S., California State University,  
Los Angeles  
M.A., Ph.D., University of  
California, San Diego

**KAY, Ian J.**  
Architecture  
A.A., San Diego Mesa College  
B.A., M.A., University of  
California, Berkeley

**KESINGER, Nancee**  
English  
A.A., Grossmont College  
B.A., M.A., University of  
California, San Diego

**KHALIL, Winifred Benchoff**  
Medical Assisting  
R.N., California Hospital School  
of Nursing  
M.A., United States  
International University

**KHAMBATA, Suzanne**  
Health Services Director  
L.V.N., A.D.N., San Diego  
Community College District  
(City and Mesa)  
B.S.N., M.S.N., F.N.P., University  
of San Diego

**KINNEY, Christine**  
Physical Therapist Assistant  
A.S., Mesa College  
B.S., San Diego State University

**KLING, Wendell M.**  
Fine Arts (Sculpture)  
B.A., M.F.A., University of  
California, San Diego

**KOHLENBERG, Terry**  
Speech Communication  
B.A., California State University,  
Long Beach  
M.A., San Diego State University

**KORNEITCHOUK, Igor**  
Music  
B.A., Case Western University  
B.A., M.A., Cleveland Institute  
of Music  
Ph.D., University of California,  
San Diego

**KOTTEL, Randall H.**  
Biology  
B.A., University of California,  
Riverside  
M.S., California State University,  
Long Beach  
Ph.D., Indiana University

**KRAVATZ, Tanya**  
Sociology  
A.A., L.A. Valley College  
B.A., University of California,  
Los Angeles  
M.A., Ph.D., University of  
California, San Diego

**KROWN, Kevin A.**  
Biology  
B.S., University of California,  
Irvine  
M.S., California State  
Polytechnic University,  
Pomona  
Ph.D., University of Arizona,  
Tucson

**KUMAR, Meera**  
English  
B.A., M.A., Delhi University,  
India  
Ph.D., Meerut

**KUNIYUKI, Ken**  
Mathematics  
B.S., M.S., Stanford University  
M.A., University of California,  
San Diego

**LARA, Mario F.**  
Art (Digital Art)  
B.A., San Diego State University  
M.F.A., University of California,  
San Diego

**LARIS, Georgia**  
Art  
B.S., Indiana University of  
Pennsylvania  
M.S., University of Pittsburgh

**LAURIA, Danielle P.**  
Program Director, Medical  
Assisting  
B.S., Alderson-Broaddus College  
PA-C (Physician Asst. Certificate)  
National Commission for  
Certification of Physician  
Assistants

**LAZEAR, Susan**  
Fashion  
B.S., University of Guelph  
M.S., San Diego State University

**LEE, Jaeryoung**  
Music (Piano/Keyboard Theory)  
B.A., Ewha Women's University,  
Seoul, Korea  
M.A., M.M. San Diego State  
University

**LESTER, Kim M.**  
P.E. Women's Volleyball  
B.S., San Diego State University  
M.Ed., Azusa Pacific University

**LEWIS, Starla**  
Black Studies  
A.A., Pasadena City College  
B.S., M.A., San Diego State  
University



**LÓPEZ, César**  
Chicano Studies  
B.A., University of Southern  
California  
M.A., Ph.D., University of  
California, Berkeley

**LÓPEZ, Leticia P.**  
Spanish  
B.S., B.A., Mount St. Mary's  
College, Los Angeles  
M.A., Ph.D., University of  
California, Santa Barbara

**LORENCE, Laurie**  
English, Reading  
B.A., University of  
Massachusetts  
M.Ed., University of Washington

**LUNA, Carl**  
Political Science  
B.A., University of San Diego  
Ph.D., The American University

**LUOMA, Andrea M.**  
Hospitality Management  
B.A., St. Cloud State University  
M.A., Ph.D., Washington State  
University

**LUSTER, Pamela T.**  
President  
B.A., M.A., San Jose State  
University  
Ed.D., Fielding Graduate  
University

**MACKENZIE, Laurie**  
Psychology  
M. A., San Diego State  
University

**MAGANA, Marichu**  
Counselor (STAR)  
B.A., University of California,  
San Diego  
M.S., San Diego State University  
Psy.D., Alliant International  
University, San Diego

**MARQUEZ, Javier**  
Mathematics  
B.A., University of California,  
Santa Cruz  
M.A., University of California,  
Irvine  
Ph.D., University of California,  
San Diego

**MARRUJO, Guillermo**  
Counselor  
A.A., San Diego Mesa College  
B.A., University of California,  
Santa Cruz  
M.A., San Diego State University

**MARX, Andrea D.**  
Consumer Studies  
B.S. Russell Sage College  
M.A., Michigan State University

**MATHIS, Laura**  
Counselor  
B.A., UC Berkeley  
M.S., San Diego State University

**MAYASA, Thekima D.**  
Black Studies  
B.A, Afro-American Studies;  
B.A., Economics, M.A., San  
Diego State University

**McKENZIE, Joseph**  
Political Science  
B.A., Ph.D., University of  
California, Riverside  
J.D., University of San Diego

**McGRATH, Tim**  
Vice President, Instruction  
B.S.L., Western State University  
College of Law  
M.S.A., Pepperdine University  
J.D., Western State University  
College of Law

**McLEOD, Jonathan**  
U.S. History  
B.A., M.A., University of  
California, Davis  
Ph.D., University of California,  
Los Angeles

**MECKSTROTH, Phyllis**  
Mathematics  
B.A., M.A.T., San Diego State  
University

**MENDOZA, Patricia R.**  
Physical Education, Softball  
B.A., M.A., M.A., San Diego State  
University

**MILNER, Devin**  
Librarianship  
B.A., University of California,  
San Diego  
M.L.S., University of California,  
Los Angeles  
M.A., University of San Diego

**MIYOSHI, Dina**  
Psychology  
B.A., University of California,  
San Diego  
M.A., Ph.D., University of  
California, Riverside

**MOCTEZUMA, Alessandra**  
Art  
B.A., M.F.A., University of  
California, Los Angeles

**MOHSENZADEH, Morteza**  
Engineering  
B.S., M.S., San Diego State  
University

**MONA, Claude O.**  
Physics  
B.A., B.S., University of  
California, San Diego  
M.S., San Diego State University

**MOORE, Mimi**  
Interior Design  
B.A., M. A., San Diego State  
University

**MORENO-IKARI, Jill**  
English  
B.A., University of California,  
San Diego  
M.A., University of Southern  
California  
Ed.D., San Diego State  
University

**NARAYANAN, Susheela**  
Child Development  
B.A., Delhi University, New  
Delhi, India  
B.Ed., University of Toronto,  
Canada  
M.A., Bangalore University,  
India  
M.S., Syracuse University

**NASCHAK, Bruce Stephen**  
English  
B.A., M.A., San Diego State  
University

**OLSON, Roger**  
Library Science  
B.M., University of Wisconsin  
B.A.A., University of Minnesota,  
Duluth  
M.M., University of Southern  
California, Los Angeles  
M.A., University of Wisconsin,  
Madison

**OLVERA, Pedro**  
Counselor/Assistant EOPS Officer  
B.A., M.A., California Polytechnic  
University, San Louis Obispo

**ORNELAS, Michael R.**  
Chicano Studies  
B.A., M.A., University of  
California, Santa Barbara

**ORONA, Celia**  
English/EOSL  
B.A., University of California,  
San Diego  
M.A., M.A., Eastern Michigan  
University

**OWEN, Karen J.**  
Computer Business Technology/  
Multimedia  
B.A., M.A., San Diego State  
University  
M.S., International University  
Europe, London, England

**PADILLA BARAJAS, Hannah L.**  
Spanish  
B.A., Macalester College  
M.A., University of California,  
Santa Barbara

**PARKER, Juliette A.**  
Articulation Officer  
B.A., M.P.A., San Diego State  
University

**PARKER, Kari B.**  
Counselor  
B.A., San Diego State University  
M.A., University of San Diego

**PARSONS, Michelle A.**  
Mathematics  
B.A., M.A., San Diego State  
University

**PARVINI, Shahrokh**  
Mathematics  
B.S., M.S., Oklahoma State  
University, Stillwater  
Ed.D., Alliant University

**PETERS, William**  
Mathematics  
B.S., Bemidji State University  
M.A., University of Northern  
Colorado

**PHELPS, Robert W.**  
Biology/Microbiology  
B.A., University of California,  
San Diego  
M.A., San Diego State University

**PIANTA**  
English/ESOL  
B.A., M.A., University of Hawaii,  
Manoa

**PICKFORD, Robert E.**  
English (Writing Center  
Coordinator)  
B.A., M.A., San Diego State  
University

**PLUDOW, Julie**  
Disability Support Programs and  
Services  
B.A., California State University,  
Northridge  
M.S., San Diego State University

**PRIMOZA, Alison**  
Spanish  
B.A., M.A., Ph.D., University of  
California, Berkeley

**RAMSTRUM, Momilani**  
Music (Theory)  
B.S., University of  
Massachusetts, Amherst  
M.A., San Diego State University  
Ph.D., University of California,  
San Diego

**RASCON, Francisca**  
Spanish  
B.A., M.A., San Diego State  
University

**RATTNER, Mariette**  
Business  
B.A., California State University,  
Long Beach  
M.B.A., University of Southern  
California

**REESE, Michael S.**  
Mathematics  
S.B., S.M., Massachusetts  
Institute of Technology  
M.A., Adams State College  
M.A.(2), University of California,  
Santa Barbara  
Ed.D., University of San Diego/  
San Diego State University

**RESCH, Nathan P.**  
P.E., Men's Swimming/Diving/  
Water Polo  
A.A., Foothill College  
B.A., University of California,  
Santa Barbara  
M.A., Ball State University

**REUSS, Anthony**  
Counselor  
B.A., M.Ed., University of San  
Diego  
M.A., National University

**RECALDE, Tina**

Assistant Professor/Program  
Director  
Physical Therapist Assistant  
Program  
B.S., Animal Physiology and  
Neuroscience, University of  
California, San Diego  
MS, Exercise Science & Health  
Promotion, Middle Tennessee  
State University;  
DPT, University of Southern  
California;

**RICO-BRAVO, Cynthia**

Counselor  
B.A., San Diego State University  
M.A., San Diego State University

**ROBINSON, Arnie**

Physical Education, Track and  
Field  
B.A., M.A., San Diego State  
University.

**RODRIGUEZ, Michelle**

Political Science  
B.A., University of South Florida,  
Tampa  
M.A., George Washington  
University  
Ph.D., Johns Hopkins University

**ROGERS, Denise**

Fine Art (Art History)  
B.A., University of California,  
San Diego  
M.A., San Diego State University  
Ph.D., University of California,  
Irvine

**ROMEIO, James**

Music  
B.S., Kent State University  
M.M., University of Akron

**ROSECLIFFE, Bonnie**

English  
B.A., University of California,  
San Diego  
M.A., San Diego State University

**ROSENSTAND, Nina**

Philosophy  
Exam.Art (B.A.), University of  
Copenhagen, Denmark  
Magister Artium (Ph.D.),  
University of Copenhagen,  
Denmark

**ROSS, Judith**

Mathematics  
B.A., College of St. Catherine  
M.A., C.Phil., University of  
California, San Diego

**RYNO, Ronald J.**

Sociology  
B.A., San Diego State University  
M.A., Ph.D., University of  
California, San Diego

**SABALLET, Alfonso**

Computer Business Technology/  
Multimedia  
B.S., Loyola University, Chicago  
M.S., National University,  
San Diego

**SAFDIE, Joseph A.**

English  
2 B.As., University of California,  
Santa Cruz  
M.A., University of Colorado

**SAIDANE, Saloua**

Chemistry  
B.S., M.S., Ph.D., University of  
Tunis, Tunisia

**SALINE-STYLES, Leslie A.**

English (ESOL, Deaf)  
B.A., M.A., Gallaudet University

**SANCHEZ, Robert J.**

Fine Art (Painting & Drawing)  
B.F.A., Memphis College of Art  
M.A., University of New Mexico,  
Albuquerque

**SANCHEZ, Michael**

Physical Education/Baseball  
B.A., California State University,  
Dominguez Hills  
M.A., Azusa Pacific University

**SANCHEZ-BERNARDY, Virginia**

Spanish  
B.A., M.A., San Diego State  
University

**SANDVICK, Ronald**

Math  
B.A., San Diego State University  
M.A., University of  
New Hampshire

**SCHAD, Gerald L.**

Physical Science/Astronomy  
A.B., University of California,  
Berkeley  
M.S., San Diego State University

**SCHANBERGER, Joseph A.**

Mathematics  
B.A., University of San Diego  
M.A., San Diego State University

**SCHENK, Marilynn**

English (Reading Specialist)  
B.A., M.A., University of Santa  
Barbara

**SCHNEITER-WILLIAMS, Karen**

Computer Business Technology  
B.A., University of Northern  
Iowa

**SCHOENBRUN-FERNANDEZ,**

Dora I.  
Spanish  
B.A., University of California,  
Berkeley  
M.A., San Diego State University

**SEIGER, Leslie**

Biology  
B. S., Wright State University  
Ph.D., George Washington  
University

**SEXTON, Barbara A.**

Fine Art (Drawing and Painting)  
B.A., University of South Florida  
M.A., San Diego State University

**SHI, Xiaoguang (Shannon)**

Chinese (Mandarin)  
B.A., Lanzhou University,  
Lanzhou, China  
M.A., Chinese Academy of  
Social Sciences, Beijing,  
China,  
Ph.D., University of California,  
San Diego

**SIEGEL, Steven**  
Physics  
B.S., Boise State University  
M.S., Idaho State University

**SIEVERS, John**  
Astronomy  
B.A., M.A., San Diego State University  
A.B.D., University of Pennsylvania

**SILVERMAN, Vilma**  
Spanish  
B.A., M.A. San Diego State University

**SMITH, Jean Ann**  
Librarian  
B.A., University of Michigan, Ann Arbor  
MLIS, University of California, Berkeley

**SMITH, Wendy**  
English  
B.A., University of California, San Diego  
M.A., San Diego State University

**SONG, Xiaochuan**  
Business/Economics  
B.A., M.A., Liaoning University, Shenyang, China  
M.S., Brigham Young University  
Ph.D., University of Southern California, Los Angeles

**SPECHT, Erica**  
Grant Writer  
B.S., University of California, Davis  
M.S., National University, San Diego

**STARBUCK, Scott**  
English  
B.S., Western Oregon State College  
M.F.A., Eastern Washington University, Cheney

**STEINBERG, Alison**  
Librarian (Online Services)  
B.F.A., University of North Carolina, Winston-Salem  
M.L.I.S. San Jose State University Distance Education Program  
University, Cheney, WA

**STOCKERT, Brian H.**  
Interim Vice President, Student Services  
B.A., M.A., National University

**STOLL, Dawn**  
DSPS  
B.A., University of California, Santa Cruz  
M.S., San Diego State University

**SULLIVAN, Chris**  
Interim Dean, Humanities  
B.A., M.A., San Diego State University  
Ed.D., San Diego State University

**SUNDAYO, Judy**  
Counselor  
B.A., American University  
M.A., United States International University  
M.A., Ph.D., Professional School of Psychological Studies

**SVOBODA, George (Jiri)**  
Music (Performance Studies)  
B.A., M.A., San Diego State University  
Degree from State Conservatory of Pilsen, Czechoslovakia

**SYKES, Paul**  
Biology  
B.A., University of California, Santa Barbara  
M.S., California State University, Long Beach  
Ph.D., University of California, San Diego

**SZYNDLAR, Jerzy**  
Physical Education, Soccer  
B.A., M.A., Gdansk University, Poland

**TEEGARDEN, Mary Therese**  
Math/Computer Science  
B.A., University of Kent, Canterbury, England  
M.A.T., San Diego State University

**TEMPLE, Michael V.**  
Counselor  
A.A., Grossmont College  
B.A., University of Montana, Missoula  
M.A., San Diego State University

**TOTH, Juan Carlos**  
Computer Business Technology/Multimedia  
B.A., Keene State College  
M.F.A., San Diego State University

**TOTO, Joseph,**  
Chemistry  
B.S., Albright College, Reading, PA  
M.S., Ph.D. University of California, Santa Barbara

**TRAN, Ngoc Kim**  
Mathematics  
B.A., University of California, San Diego  
M.A., University of California, Santa Barbara

**TREMBLEY, Mark**  
Geography  
A.A., Los Angeles Valley College  
B.A., California State University, Northridge  
M.A., M.L.A., University of California, Berkeley

**TRUNEH, Yohannes**  
Mathematics  
B.S., Addis Ababa University, Addis Ababa, Ethiopia  
M.S., Cranfield Institute of Technology, Cranfield, England  
Ph.D., Imperial College of London, England

**TUTTLE, Tracy C.**  
Accounting  
B.A., M.S., University of Nevada, Las Vegas

**VAN KIRK**, Jaye  
Psychology  
B.A., San Francisco State  
University  
M.A., California State University,  
Fullerton

**VELEZ**, Manuel J.  
Chicano Studies  
B.A., M.F.A., University of Texas,  
El Paso

**WALES**, James  
Counselor  
B.A., Rutgers University  
M.A., California State University,  
Chico

**WALKER**, Tracey  
English  
B.A., M.A., San Diego State  
University

**WEAVER**, Benjamin F.  
Counselor  
B.S., M.S., San Diego State  
University

**WESLEY**, Walter Duane  
Computer and Information  
Science (CISC)  
B.S., M.S., National University,  
San Diego

**WILLIAMS**, Lisa  
Physical Education, Basketball  
B.S., Eastern Illinois University  
M.S., Arizona State University

**WINSTON**, Akunna E.  
Business  
B.A., University of Washington,  
Seattle.  
M.A., Webster University, St.  
Louis, MO  
D.B.A., United States  
International University, San  
Diego

**WITTNER**, Lois  
Speech Communication  
B.A., San Diego State University  
M.A., Purdue University

**WONG**, Seung-Kai  
Physics  
General B.Sc., Special B.Sc.,  
University of Hong Kong,  
China  
Ph.D., Columbia University, NY

**ZABALETA**, Francisco S.  
Language Lab Director  
B.A., M.A., San Diego State  
University  
Ph.D., University of California,  
Santa Barbara  
Degree in Master Industrialist  
Studies, Don Bosco  
Polytechnic Institute, Pasajes,  
Guipuzcoa, Spain

**ZAND**, Farshid V.  
Chemistry  
B.S., National University of Iran  
in Teheran  
M.S., Ph.D., University of Paris-  
sud, Orsay, France  
M.S., United States  
International University, San  
Diego

**ZAPPIA**, Charles  
Dean, School of Social &  
Behavioral Sciences/Multicultural  
Studies  
B.A., University of Pittsburgh  
M.A., San Jose State University  
Ph.D., University of California,  
Berkeley

**ZOBELL**, Bonnie  
English  
A.B., San Diego State University  
M.F.A., Columbia University

**FACULTY/ADMINISTRATORS  
EMERITI**

AASE, Betty H., Faculty  
 ADASKIN, Joan, Faculty  
 ALTHAUS, Christine, Faculty  
 AMONDSO, Nellie G., Faculty  
 ANCINEC, George D., Faculty  
 ANDERSON, Keith, Faculty  
 ANTRIM, Merrilee, Faculty  
 ARMSTRONG, Elizabeth, Vice  
 President/Interim President  
 ATHERTON, Larry, Faculty  
 AXFORD, Louis M., Faculty  
 BALICH, Michael S., Faculty  
 BALL, Robert W., Faculty  
 BANDES, William D., Faculty  
 BARBOLLA, Diane E., Faculty  
 BARKER, David P., Faculty  
 BARKER, Margaret S., Faculty  
 BEDNAR, Mildred, Faculty  
 BENSON, Ellis M., President  
 BERGLAND, Yvonne, Faculty  
 BLACKMUN, Barbara W., Faculty  
 BLANKENBURG, Richard, Dean  
 BLOCK, Jack J., Faculty  
 BOLEY, Rita, Faculty  
 BONHAM, Frank L., Faculty  
 BORGES, Fred W., Faculty  
 BOYD, Arthur, Faculty  
 BRILL, Jack, Faculty  
 BROOKS, Allen, Vice Chancellor  
 BROWN, Charles, Faculty  
 BROYLES, Irene M., Faculty  
 BRYNOLF, Anita, Faculty  
 BUCHANAN, Jill, Faculty  
 BURRIGHT, Margaret A., Faculty  
 CALDWELL, William H., Faculty  
 CANERS, Leonard, Faculty  
 CARMAN, A. Hugh, Faculty  
 CARMAN, John, Faculty  
 CARR, Gwen R., Faculty  
 CASEY, Emmett, Dean  
 CASTRO, Juan, Faculty  
 CLARK, James, Faculty  
 CLUTINGER, Ann, Faculty  
 COBLENTZ, Barbara, Faculty  
 CORBIN, Lynda, Faculty  
 COLLINS, Charles, Faculty  
 CONRAD, John W., Faculty  
 CORBIN, Lynda, Faculty  
 CORLISS, Jodi, Dean  
 CORUM, Charles G., Faculty  
 COXE, Richard P., Faculty  
 CREEKMUR, Edward W., Faculty  
 CROMER, Harry E., Faculty  
 CROOK, Paul L., Faculty  
 DAHLAGER, Margaret B., Faculty  
 DALL, Virginia, Faculty  
 DARTT, James, Faculty  
 DAVIS, Muriel E., Faculty  
 DEL CASTILLO, Margarita,  
 Faculty  
 DETZER, Jordan, Faculty  
 DEWSE, Ronald P., Faculty  
 DOHRMAN, Mary H., Faculty  
 DORIA, Manuel J., Faculty  
 DURELLI, Paul, Faculty  
 DYKE, Margaret Ann, Faculty  
 EASLEY, Chas T., Faculty  
 EBERHARDT, Robert L., Faculty  
 ENGER, Hal, Faculty  
 ENGSTROM, Karl, Faculty  
 FAGER, David G., Faculty  
 FANNON, Connie K., Faculty  
 FEHRENSEN, Fritz, Faculty  
 FENG, Da-Fei, Faculty  
 FINEGOLD, Leo, Faculty  
 FINTZELBERG, Nicholas, Faculty  
 FLOURIE, Edith Elizabeth,  
 Faculty  
 FRAZER, Elinor, Faculty  
 FRISCH, Sondra, Faculty  
 FROST, Bernard G., Faculty  
 FORMAN, Jack  
 FOSTER, Kit, Dean  
 GERRODETTE, George, Faculty  
 GONZÁLEZ, César A., Faculty  
 GRAVES, Houria, Faculty  
 GREENO, David, Faculty  
 GRENNAN, Albert J., Faculty  
 GUTIERREZ, Elisa, Faculty  
 HAMILTON, Elizabeth A., Faculty  
 HAMMES, Richard B., Faculty  
 HANCHETT, Jean F., Faculty  
 HANNAN, James  
 HARRIS, Alayne, Faculty  
 HECK, Kathryn Ann, Faculty  
 HENINGER, Robert E., Faculty  
 HENSELL, Sylvia, Faculty  
 HODNETT, Haley L., Faculty  
 HOGINS, J. Burl, Faculty  
 HOPKINS, Diane G., Faculty  
 HORN, Frederick J., Faculty  
 HOSKINS, Helyn V., Faculty  
 HUGHES, Elogene, Faculty  
 HUGHES, JoAnn, Faculty  
 HUNT, George T., Faculty  
 HUNTER, Clare M., Faculty  
 HURTIK, Emil, Faculty  
 ICKSTADT, Albert L.  
 ILIEW, Joanna G., Faculty  
 IMLAY, James J., Faculty  
 JACKSON, Thomas, Faculty  
 JACOT, Paul G., Faculty  
 JAPPE, Fred, Faculty  
 JERDE, Charles, Faculty  
 JOHNSON, Wayman H.L.,  
 Dean and Faculty  
 JONES, David N., Faculty  
 JUNIOR, Shirley, Faculty  
 KAWAHARA, Yoshito, Faculty  
 KELLY, W. Lloyd, Faculty  
 KENDALL, Eleanor E., Dean  
 KHARAS, Katharine J., Faculty  
 KILIAN, Elizabeth J., Faculty  
 KENNEY, William R., Faculty  
 KING, Irvin J., Faculty  
 KIRBY, John, Faculty  
 KOMISARCIK, Mary Jane,  
 Faculty  
 KOTNIK, Sally M., Faculty  
 KOVAC, John, Faculty  
 KOVAC, Shirley, Faculty  
 KRONOVET, Esther, Dean  
 KUTTNAUER, Michael V., Faculty  
 LABONVILLE, Joseph, Faculty  
 LEWIS, Albert J., Faculty  
 LINDSEY, Philomena A. Faculty  
 LISCOMBE, Anna R., Faculty  
 LISKA, Kenneth J., Faculty  
 LIZANO, Alvaro, Faculty  
 LOCKE, Mary Lou, Faculty  
 LOWE, Karen, Faculty  
 LUHNOW, Sandra, Faculty  
 LUTZ, Carl L., Faculty  
 LYTWYN, Richard Faculty  
 MacMILLIAN, Mildred, Faculty  
 MAKARUSHKA, Andrew, Faculty  
 MANAHAN, Don, Faculty  
 MANUEL, Leo W., Faculty  
 MARCUS, Diana M., Faculty  
 MARDER, Stanley, Faculty  
 MARSTELLAR, Glen W., Faculty  
 MASON, James D., Faculty  
 MATULA, Arthur, Faculty  
 MAZZA, Ralph V., Faculty  
 McCAMEY, James E. Jr., Faculty  
 McCOMMINS, Robert B., Dean  
 McLAUGHLIN, Richard, Faculty

McNAIR, David G., Faculty  
 McNAUGHTON, James E.,  
 Faculty  
 MICHAELS, Robert, Faculty  
 MILBURN, Jerry A., Faculty  
 MILLIKAN, Donald H., Faculty  
 MIYAZAKI, Hiroshi, Faculty  
 MIZISIN, Andrew P., Faculty  
 MONELL, Gary E., Faculty  
 MULCAHY, Shirley, Faculty  
 MUNYON, Lila, Faculty  
 MURDOCK, Sally A., Faculty  
 NEWTON, Edward M., Faculty  
 NEWHOUSE, Jeanne C.,  
 Librarian  
 NICHOLS, Malcolm S., Faculty  
 NORTON, Robert E., Faculty  
 OBATA, James K., Faculty  
 O'CONNOR, Colleen, Faculty  
 OLAFSON, Patricia C., Faculty  
 ONTELL, Valerie, Librarian  
 ORSINELLI, Shirley Ann, Faculty  
 PACKARD, Harry Brown, Faculty  
 PAUTLER, Judith A., Dean  
 PAYNE, Kenneth A., Faculty  
 PEERSON, Richard H., Faculty  
 PEREZ, Joel O., Faculty  
 PETERS, John E., Faculty  
 PETTY, Robert, Faculty  
 PHIRI, Dickson, Faculty  
 PICKERING, Carolyn, Faculty  
 PIDGEON, Patrick, Dean  
 PLOOF, Marshall R., Faculty  
 POPA, E. Charles, Faculty  
 PRIM, James T., Faculty  
 QUINTANA, Leroy, Faculty  
 RADFORD, Keith W., Faculty  
 RANDALL, Edward W., Faculty  
 RANDALL, Frances J., Faculty  
 REEVES, William C., Faculty  
 RICE, Thomas B., Faculty  
 RICHARDS, Eadie, Faculty  
 RICHARDSON, Ramona J.,  
 Faculty  
 RIGLEY, Orin H. JR., Faculty  
 RISTY, Irma F., Faculty  
 ROBB, Kathleen, Faculty  
 ROBERTS, Carol H., Faculty  
 ROBERT, Sybil, Faculty  
 ROONEY, Phillip J., Faculty  
 ROTH, Julia C., Faculty  
 ROUELLE, Andre E., Faculty  
 ROWE, Lyle, Faculty

RUMBAUGH, Sally, Faculty  
 RUSSELL, Dorothy, Faculty  
 RUSSELL, Robert E., Faculty  
 RUSSERT, Connie, Faculty  
 SANCHEZ, Rita B., Faculty  
 SANCLEMENTE, L. Edw., Faculty  
 SANDBACK, William W., Faculty  
 SAPSIS, William H., Faculty  
 SAUER, June, Faculty  
 SCHARBER, Samuel R. Faculty  
 SCHERMERHORN, John A.,  
 Faculty  
 SCHEUFLER, John H., Faculty  
 SCHWARTZ, Frederick L.,  
 Faculty  
 SCHWENKMEYER, Richard,  
 Faculty  
 SCRIBNER, Teddy, Faculty  
 SEYMOUR, Walter A., Faculty  
 SHAW, Gerald, Faculty  
 SHEETZ, Doris, Faculty  
 SHELTON, Nancy, Faculty  
 SHINNERL, Peter J., Faculty  
 SILVER, Patricia, Faculty  
 SKOGLUND, Jay W., Faculty  
 SMALHEER, Douglas A., Faculty  
 SMITH, Diane, Faculty  
 SMITH, Hal M., Faculty  
 SMITH, Harold E., Faculty  
 SMITH, Kenneth A., Faculty  
 SMITH, Wanda W., Faculty  
 SMORIN, Leonard, Faculty  
 SNYDER, John E., Dean  
 SORMAN, Edmond E., Faculty  
 STAMM, Judy, Faculty  
 STEIGER, John W., Faculty  
 STEVENSON, Donald H., Faculty  
 STOUT, Robert C., Faculty  
 STOCKWELL, Ross, Faculty  
 STRONA, Carl L., Faculty  
 SULZBACH, William B., Faculty  
 SUCHECKI, Dennis, Faculty  
 SWEGLES, William, Faculty  
 SYKES, Shirley D., Faculty  
 TAPPEN, William A., Faculty  
 TEEGARDEN, Tom P., Faculty  
 TEWS, Paul, Faculty  
 THELIG, Kenneth, Faculty  
 TIFFT, Paul W., Faculty  
 THOMPSON, Jesse, Faculty  
 THROCKMORTON, Harold,  
 Faculty  
 TRIPATHI, Ishwari Dutta, Faculty

TSANG, Allan W., Faculty  
 TUCKER, Betty Jo, Dean  
 TURNER, Glenyth A., Faculty  
 UNDERWOOD, Beulah Grant,  
 Faculty  
 UNDERWOOD, Thomas Lon,  
 Faculty  
 VAN BENTHUYSEN, Jane,  
 Faculty  
 VAN DE VEN, John D., Faculty  
 VAN DER STAP, Laurentius,  
 Faculty  
 VOLPE, Carolyn C., Faculty  
 WALKER, Alfred S., Faculty  
 WAYMON, Carrol, Faculty  
 WEBSTER, Robert W., Dean  
 WEISS, Larry, Dean  
 WELCH, Lionel C., Faculty  
 WILKE, Irving J., Faculty  
 WILLIAMS, Christopher Starr,  
 Faculty  
 WILLIS, Veronica, Faculty  
 WINSLOW, Jacqueline L.,  
 Faculty  
 WITHERS, Marjorie, Faculty  
 WITT, Betty J., Faculty  
 WITZMAN, Joseph E. Faculty  
 WOLINSKI, Arelene E., Faculty  
 WOODRUFF, Milton D., Faculty  
 WRAY, John Henry, Faculty  
 WYBORNEY, Ruth, Faculty  
 YARBER, Robert E., Faculty  
 YOUNG, Dolores M., Faculty  
 ZABINSKY, Edward J., Faculty





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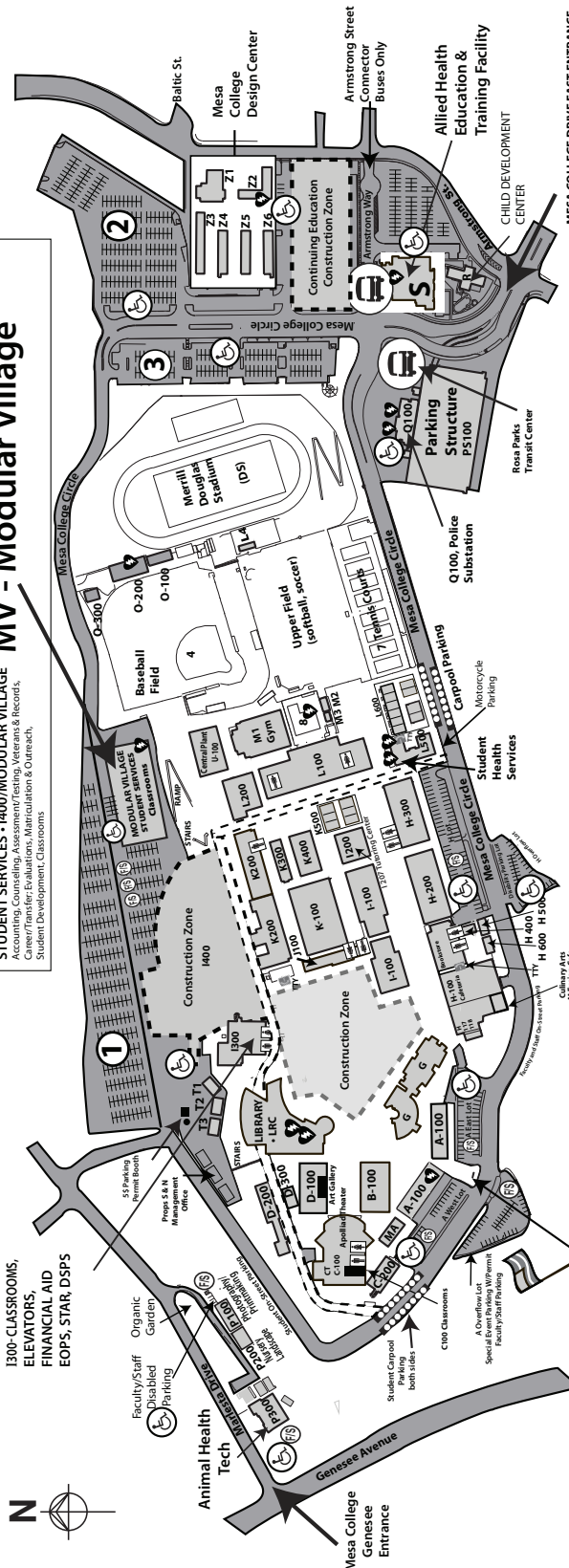
# SAN DIEGO MESA COLLEGE

7250 Mesa College Drive, San Diego, CA 92111-4998 • 619-388-2600 • 858-627-2600 • www.sdmesa.edu

**1300-CLASSROOMS,  
ELEVATORS,  
FINANCIAL AID  
EOPS, STAR, DSPS**

## MV - Modular Village

**ADMISSIONS/VISITOR PARKING  
STUDENT SERVICES • 1400/MODULAR VILLAGE**  
Career/Transfer/Evaluations, Matriculation & Outreach,  
Student Development, Classrooms



**Flagpole**  
Mesa College is a smoke-free campus.  
Police Escort Service 619-388-6405

**Construction Zone**  
Pedestrian Walkway outside construction boundaries

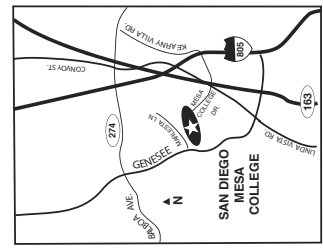
**AED - Automated External Defibrillator locations**  
Fire Lane

KEY	Administration, President, V.P. Instruction, V.P. Student Services	Classrooms, Applied Theatre, Applied Theatre	Classrooms, Offices, Fine Arts Classrooms (Gallery, D-101)	Classrooms, Dean's Office, Dean's Office, Bookstore	Classrooms, Communications Services Office, Student Affairs, Student Government	Classrooms, Employment, DSPS, EOPS, Financial Aid, STAR
A-100						
A-111						
B-100						
CTC100						
C-200						
D-200, D300						
F-100						
F-200						
G-Bldg						
H-100						
H-200						
H-300						
H-400						
H-500						
H-1000						
I-300						

I-400	Under Construction
J-100	Operations, Offices
K-100	Classrooms, Offices A, Adjusted Workroom
K-200	Classrooms, K108 B - Mailroom
K-300	Classrooms, Stockroom, Receiving, Mailroom, Reprographics
K-400	Computer Labs, Classrooms
K-500	Classrooms, Application Labs
LRC	Library, Audiovisual, Center for Independent Learning, High Tech Center
L-100	Physical Education, Vt. Rooms
L-200	Health Services, Athletic Training Room, Campus Nurse, Health Services
L-500	MET High School
L-600	Classrooms
MA	Classrooms, MVillage-Accounting, Admissions, Evaluations, Counseling, Testing, Veterans/Records
MV	Transfer Center, Classrooms
P-100	Photography/Printing
P-500	Nursery/Landscaping, Organic Garden

P-300	Animal Health Technology
O-100	Police Substation
O-200	Parking Structure
O-300	Police Substation
Q	Police Substation
S	Facility
T1, T2, T3	Temporary Classrooms
U-100	Central Plant
Z	Mesa College Design Center, Classrooms
PARKING	Student Parking with Permit, Faculty/Staff Permit Parking, Student Carpool Parking (2 or more occupants)
M1, M2, M3	Gym
4	Baseball Field
5	Merrill Douglas Stadium
7	Tennis Courts
8	Swimming Pool
10	Upper Field (soccer/softball)

TTY Phone: near cafeteria L500 and F200	MTS Bus Stop, Routes 41, 44	Student Restrooms	HC-ADA Parking
Animal Health Technology	Police Substation	Facility	Temporary Classrooms
Police Substation	Police Substation	Central Plant	Mesa College Design Center, Classrooms
Facility	Facility	Mesa College Design Center, Classrooms	
Temporary Classrooms	Central Plant	Mesa College Design Center, Classrooms	
Mesa College Design Center, Classrooms			



Updated July 13, 2011





